

PROFESSIONAL SUMMARY

SOFTWARE DEVELOPMENT | AI/ML INTEGRATION | HUMAN-CENTERED SOLUTIONS

Results-driven Software Engineer, AI-focused architect, and Texas A&M Computer Science graduate with a proven track record of creating software solutions that bridge business needs, enterprise constraints, and creative applied technology. Experienced in secure corporate application development, full stack engineering, cloud infrastructure, data products, AI/ML integration, and full-stack product execution. Currently building production-minded software in Aetna's Member Experience Insights environment, translating the needs of data scientists, product partners, and business leaders into internal tools, APIs, dashboards, and workflow improvements that support insight generation and operational decision-making. Career highlighted by enterprise engineering work with Aetna, Hewlett Packard Enterprise, Relevance, and Gene's Machine; founder-led product development through ReplyMate; independent AI research through DOUG; and community leadership through The Loose Ties Society.

- Leadership
- Process Automation
- Cloud Architecture
- Risk Mitigation

- Cross-Functional Collaboration
- Data Integration
- AI / ML Integration

- Technical Writing
- IoT Systems Development
- Community Building

OVERVIEW OF KEY CONTRIBUTIONS

Enterprise AI and Data Products	Designed internal applications and backend services that help data science and business teams convert member experience data into usable insights inside a secure corporate environment.
Business Impact and Automation	Built practical systems that reduce manual work, simplify technical workflows, improve data access, and turn ambiguous stakeholder needs into maintainable software solutions.
Creative AI Application Research	Developing DOUG, an independent white paper project exploring multimodal AI, behavioral signal interpretation, edge inference, and humane consumer AI design for a dog communication collar concept, inspired by a fictional character from the Pixar movie, "Up".
Community and Product Leadership	Founded The Loose Ties Society and built its website direction, group model, onboarding flow, ambassador strategy, event structure, and public-facing brand around real-world connection.

PROFESSIONAL EXPERIENCE

Aetna, a CVS Health Company

Houston, TX / Remote | 2025 – Present

Software Engineer, Data Science / STARS Member Experience Insights

- Design and deploy production-grade backend, DevOps, and application solutions within Aetna's secure enterprise environment, working across Dash Enterprise, FastAPI, GCP, Kubernetes, internal approval workflows, and corporate engineering standards.
- Build internal tools, dashboards, APIs, and data applications used by data science and business teams to surface member experience insights, validate analyses, support operational decision-making, and make complex enterprise data easier to act on.
- Develop enterprise-facing tooling, including an internal API send tool similar to Postman, to simplify testing, validation, and data access workflows for non-engineering stakeholders while remaining inside approved corporate tooling and security constraints.
- Translate ambiguous business needs from data scientists, product partners, external representatives, and leadership into maintainable software requirements, implementation plans, review-ready technical documentation, and production-aware engineering solutions.
- Support AI enablement and reliability work by evaluating Vertex AI / Gemini latency patterns, rate-limit behavior, endpoint constraints, and infrastructure bottlenecks, helping frame technical tradeoffs in terms of business reliability, user trust, and product feasibility.

Relevance Inc.

College Station, TX / Remote | 2024 – 2025

Cloud DevOps Engineer

- Designed and deployed end-to-end IoT telemetry pipelines using Azure IoT Hub, Blob Storage, Stream Analytics, and Power BI to enable real-time ingestion, processing, and visualization for industrial systems.

- Developed and containerized Python services with Docker to manage telemetry flow, transformation, filtering, and routing logic from edge devices to cloud infrastructure.
- Programmed low-level hardware integration for a BELA interface on a Raspberry Pi, enabling real-time analog sensor capture and secure transmission to Azure via REST APIs.
- Implemented secure cloud access patterns with Azure Service Principals, RBAC, and resource-scoped permissions to support scalable and compliant operations.

Gene's Machine

Victoria, TX | 2024 – 2025

DevOps Engineer / Integration Developer

- Designed and implemented Python middleware to extract data from Actian PSQL and transfer it into Intuit QuickBooks, replacing a costly third-party workflow and saving the company tens of thousands of dollars annually.
- Partnered directly with accounting leadership to identify operational pain points, define integration requirements, and deliver a practical data automation system that reduced manual work and improved reliability.

Hewlett Packard Enterprise - Aruba Networks

San Jose, CA | 2023

Software Developer Intern

- Integrated Microsoft Azure with Aruba 10.X / Aruba Central workflows using C#, Azure CLI, Docker, PowerShell, Bash, and Git to improve data movement and cloud connectivity.
- Optimized low-latency communication between Aruba Central access point connectors and Microsoft Azure, supporting more efficient enterprise data transfer across IoT operations workflows.
- Collaborated across cross-continental IoT operations teams using agile practices, code review, and technical documentation to deliver production-minded software improvements.

PROJECTS, RESEARCH, AND LEADERSHIP

DOUG - Dog Observation Utterance Generator

Independent Research | 2026 – Present

AI White Paper Research Lead

- Developing an independent white paper for a multimodal AI collar concept that explores how canine movement, body language, contextual sensor data, and text-to-speech could be combined to translate dog behavior into human-readable emotional states.
- Designing a proposed data collection and model development pipeline that includes synchronized collar sensor capture, multi-camera indoor motion tracking, labeled behavior datasets, offline model training, and on-device inference under realistic edge-compute constraints.
- Researching feasibility across hardware selection, ruggedized collar design, battery life, latency, sensor fusion, behavioral labeling, humane design, and the boundary between playful consumer AI and responsible animal-centered technology.
- Using the project to explore a broader product thesis around creative AI applications that are emotionally resonant, technically grounded, and understandable to non-technical users.

Cassette Swap

Independent Product Development | 2026 – Present

Independent Product Development Project

- Designed the concept and MVP architecture for an iOS application that allows users to exchange playlists across streaming platforms, beginning with Spotify-to-Apple-Music style transfer workflows.
- Developed the product vision around playlist exchange as a social experience for music lovers, with future plans for user profiles, music-based discovery, taste-sharing, and community-oriented recommendation features.
- Researched track-matching approaches using ISRC codes, artist/title metadata, album information, and duration tolerance to improve cross-platform playlist accuracy.
- Planned a SwiftUI-first implementation with dedicated authentication, streaming API, playlist matching, and transfer-history layers to support a clean and scalable mobile user experience.

The Loose Ties Society

Houston, TX | 2025 – Present

Founder

- Founded a community social/service group designed to help adults build genuine friendships through optional in-person events, low-pressure belonging, and a clear model for real-world connection rather than high-pressure membership requirements.
- Designed the website direction, group model, waiver and onboarding flow, meeting structure, event concepts, ambassador strategy, outreach process, and public-facing community language needed to move the organization from idea to early-stage launch.
- Built a distinctive brand voice across social posts, flyers, captions, and community copy, combining humor, accessibility, and purpose while positioning the organization around loneliness reduction, service, and consistent in-person connection.
- Recruiting and organizing early members and ambassadors to support event hosting, community growth, social media outreach, and sustainable expansion of the organization beyond founder-led execution.

Founder, Lead Developer

- Built ReplyMate, an AI-driven messaging platform that empowers small businesses to connect with leads via SMS and email using Retrieval-Augmented Generation (RAG) for personalized, context-aware responses.
- Engineered a scalable backend in Python with FastAPI, integrating LangChain, Llama 3 8B via Groq, and HNSW vector search for fast, relevant AI-driven replies.
- Developed a server-rendered frontend using Next.js, React, Tailwind, and TypeScript, hosted on Vercel for rapid UI delivery and smooth configuration.
- Designed persistent infrastructure with PostgreSQL, Docker, and Google Kubernetes Engine (GKE) for secure, scalable deployment; currently in beta testing with multiple organizations.

TAMU College of Nursing

College Station, TX | 2024

Project Manager, Software Developer

- Led a multidisciplinary student team redesigning iCHILD from a location-based search engine into a conversational AI chatbot for health-related information discovery.
- Architected and implemented a Retrieval-Augmented Generation pipeline with LangChain and managed stakeholder communication, scope control, sprint planning, and delivery expectations.
- Served as the primary stakeholder manager between the development team and the College of Nursing, filtering customer communication into actionable technical requirements and protecting the team from mid-semester scope expansion.

Alpha Phi Omega National Service Organization

College Station, TX | 2023 – 2024

Vice President of Recruitment, Xi Delta Chapter

- Overhauled recruitment strategy, outreach channels, and event programming, attracting more than 150 prospective new members across two semesters compared with prior averages of roughly 35-40 per semester.
- Elected for two consecutive terms based on program success, leadership presence, and commitment to building a welcoming, service-oriented community.

EDUCATION

Texas A&M University — Master of Science, Artificial Intelligence | Expected Aug. 2026
Texas A&M University — Bachelor of Science, Computer Science; Minor in Cybersecurity | GPA: 3.5

AWARDS

Alpha Phi Omega – Distinguished Service Certificate (Fall 2023, Spring 2024, Fall 2024)
Alpha Phi Omega – The Mindy Bryant Memorial Award
Alpha Phi Omega – The Purple Heart Award
Alpha Phi Omega – The Ken C. Lewis Memorial Scooper Award
Alpha Phi Omega – The Role Model Award
Alpha Phi Omega – The Sturdy Oak Award

TECHNICAL SKILLS

Artificial Intelligence (AI), Generative AI, Product Management, Technical Product Management, Retrieval-Augmented Generation (RAG), Large Language Models (LLM), Python, AI Product Management, Product Strategy, LangChain, Prompt Engineering, Machine Learning, Human-Centered AI, Natural Language Processing (NLP), Vertex AI, Google Cloud Platform (GCP), Microsoft Azure, Stakeholder Management, Cross-functional Team Leadership, Requirements Gathering, Product Development, Product Roadmapping, AI/ML Integration, AI Model Deployment, Responsible AI, Semantic Search, Embeddings, Vector Databases, FastAPI, REST APIs, API Development, Full-Stack Development, Software Development, System Design, React.js, Next.js, TypeScript, JavaScript, Node.js, SQL, PostgreSQL, Data Science, Data Engineering, Data Pipelines, ETL, BigQuery, Data Visualization, Business Intelligence, Power BI, Docker, Kubernetes, Google Kubernetes Engine (GKE), Cloud Infrastructure, Cloud Computing, DevOps, CI/CD, Enterprise Software, MVP Development, User Research, Agile Project Management, Agile, Scrum, Sprint Planning, Technical Writing, User Documentation, Community Building, C++, C#, Java, NoSQL, Bash, PowerShell, R, PyTorch, Keras, TensorFlow, scikit-learn, NumPy, Pandas, OpenCV, NLTK, Data Preprocessing, Data Cleaning, Feature Engineering, Statistical Analysis, Edge Computing, Edge Inference, Sensor Fusion, Azure IoT Hub, Azure Stream Analytics, Azure Blob Storage, Azure Service Principals, Azure RBAC, Azure CLI, Azure App Services, AWS,

Git, GitHub Actions, Version Control, NGINX, Reverse Proxy, Let's Encrypt (HTTPS), Vercel, Oracle Database, SQL Server, Actian PSQL, Kusto Query Language (KQL), Data Warehousing, Data Migration, Metadata Management, Raspberry Pi, IoT Systems Development, IoT telemetry ingestion, Sensor Data Processing, Firmware Programming, MQTT, HTTP, Webhooks, OAuth, Google Forms API, Power BI API, Plivo API, Network Security, Endpoint Security, Threat Detection and Response, MFA Implementation, Network Monitoring and Analysis, Security Protocols, Network Intrusion Detection Systems (NIDS), Firewall Management, VPN Configuration, Access Control, Software Testing, Automated Testing, Code Reviews, Resource Planning, Task Allocation, Progress Tracking, Project Proposals, Requirements Documentation, Report Generation, Presentations, Stakeholder Communication, Meeting Facilitation, Team Leadership, Conflict Resolution, Mentoring and Training, Decision Making, Strategic Planning, Public Speaking, Ethical Hacking, Cybersecurity Awareness Training, Network Configuration, Infrastructure Automation, System Monitoring, Performance Optimization, Troubleshooting, Incident Response, C, Assembly Language, Prolog, PHP, XML, JSON, YAML, Markdown, HTML, CSS, Tailwind CSS, Web Design, Matplotlib, Seaborn, SciPy, Jupyter Notebook, Google Colab, MATLAB, Visual Studio, VS Code, DBeaver, Postman, PyCharm, Trello, Jira, Asana, Microsoft Teams, Slack, Linux, Windows, macOS, iOS, Android OS, Command Line Tools, QuickBooks, Raptor

Patrick Zinn
Director of Marketing & Communications

April 10, 2025

To Whom It May Concern:

I am the primary advisor for Alpha Phi Omega XI Delta Chapter, a co-educational service fraternity dedicated to the ideals of Leadership, Friendship and Service. In this capacity I had the opportunity to work with Nick Janocik for several years.

From the moment Nick joined our chapter, his energy and authenticity were impossible to ignore. His presence is dynamic, and he quickly became a favorite among members, not simply because of his personality, but because of his genuine interest in connecting with others and uplifting those around him. He has a rare gift for building immediate rapport with anyone he meets, making them feel seen, valued, and motivated to be their best. Whether working with new recruits or seasoned veterans, Nick instinctively knows how to meet people where they are and bring them together toward a shared vision.

What sets Nick apart, however, is not just his warmth or enthusiasm — it's his boldness. In a time when many shy away from discomfort, Nick is unafraid to ask the hard questions and challenge the structures that no longer serve the greater good. When our organization faced a period of declining morale, internal conflict, and identity drift, Nick stepped forward with courage and conviction. Rather than walking away, he became a driving force behind a reimagining of who we were and who we could be. I also appreciated Nick's maturity as he pushed the chapter in new directions. His ideas were thoughtful, and he was also able to collaborate with his peers, when needed, to keep things moving. He was also able to quickly pivot the rare times the Advisor's didn't agree with his ideas and asked him for a different solution.

As Vice President of Recruitment (VPR), Nick spearheaded a complete rebranding and revitalization of our recruitment program. He breathed new life into a process that had grown stale and disconnected from the heart of our chapter. The impact was immediate and undeniable. Under Nick's leadership, our recruitment numbers not only recovered but soared. He served a second term as VPR, delivering back-to-back semesters of exceptional growth, community engagement, and chapter unity. His work helped propel Xi Delta to being one of the highest performing chapters in the nation.

Above all, Nick is deeply grounded, sincere, and driven by a heart for others. His leadership is not performative — it is rooted in care. The life he breathed into our chapter was more than procedural; it was personal. He reminded us of what it means to truly serve, support, and believe in one another.

I wholeheartedly recommend Nick Janocik for any opportunity he pursues. He is a rare kind of leader, the kind that is authentic, brave, creative and relentlessly committed to making every space he enters better than he found it.

Sincerely,

A handwritten signature in black ink that reads "Patrick Zinn". The signature is written in a cursive, flowing style with a small dot above the 'i' in Zinn.

Patrick Zinn '86
APO Xi Delta Advisor

Director of Marketing & Communications
College of Education & Human Development
pzinn@tamu.edu



December 7, 2024

I am writing this letter of recommendation for Nick Janocik for employment opportunities with your company.

Nick played a pivotal role in the development of iCHILD, an innovative conversational healthcare chatbot designed for the Texas A&M College of Nursing. This cutting-edge application addresses the growing need for immediate, reliable health information by evolving beyond traditional search engines. Nick's leadership was instrumental in bridging the gap between complex technical requirements and the practical needs of caregivers and parents. As the Stakeholder Manager and Software Developer/Engineer for the "Healthwise" senior capstone project at Texas A&M University, Nick has demonstrated remarkable abilities that far exceeded my expectations.

Under Nick's guidance, the team successfully integrated OliviaHealth.com as a knowledge base and implemented Retrieval-Augmented Generation (RAG) technology. This sophisticated approach allowed iCHILD to process natural language queries and generate real-time, contextually accurate responses tailored to users' specific health needs.

Nick's technical acumen shone through as he led the team in leveraging a vector database and RAG, resulting in a significant improvement in the application's ability to deliver personalized, actionable health information. His problem-solving skills were evident in the way he approached challenges, always maintaining a positive attitude and unshakable determination.

As Stakeholder Manager, Nick excelled in managing relationships between the technical team and the College of Nursing. His ability to listen attentively to client needs, communicate technical progress clearly, and manage expectations with professionalism was truly exceptional.

The success of the iCHILD project under Nick's leadership is evident in the impressive user acceptance test results. The application demonstrated high accuracy and user satisfaction, with notable improvements in response relevance and usability. This achievement not only enhances health information delivery but also showcases the potential for contextually aware health applications to reduce dependency on physical healthcare resources.

What truly sets Nick apart is his unique combination of technical excellence and interpersonal skills. His down-to-earth nature and ability to connect with people across all levels make him not just an effective leader but also a trusted colleague. Nick's dedication to his work, coupled with his ability to bring out the best in those around him, makes him a truly exceptional individual.

In conclusion, I wholeheartedly recommend Nick Janocik for any role that values leadership, technical innovation, and a collaborative mindset. His performance as Stakeholder Manager and Software Developer/Engineer on the iCHILD project has been nothing short of outstanding. I am confident that Nick will continue to excel in project management or any position that requires a combination of technical expertise and strong interpersonal skills.

Please feel free to contact me if you require any further information about Nick's qualifications or achievements. I would be more than happy to elaborate on his exceptional contributions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Pauline Wade', with a stylized, flowing script.

Pauline Wade
Professor of Practice, Department of Computer Science and Engineering
Industry Faculty Lead, CSCE Industry Capstone Program
Department of Computer Science & Engineering
College of Engineering | Texas A&M University

Kannan Konath
Director, IoT Engineering
HPE Aruba Networks
6280 America Center Dr, San Jose, CA 95002
email: konath@hpe.com
mobile: +1 510-612-4124

Sep 4, 2024

To Whom It May Concern,

I am writing to recommend Nick Janocik who spent a summer as a software engineering intern at HPE Aruba Networking ("Aruba"). Before being selected for the internship Nick had to go through an arduous selection process. The role was purely technical and required Nick to develop an Aruba Central application that integrates Microsoft Azure with Aruba's IoT Operations. Aruba Central is Aruba's Network Management System, while IoT Operations provides a framework for integration with partner IoT devices. While we do expect interns to perform well in their task, Nick's performance was above expectations.

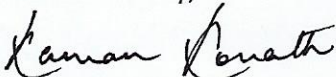
As is the standard in our organization Nick was assigned a mentor. Early on, I received feedback that Nick was *doer* rather than expecting everything to fall into his lap. Nick did not shy away from diving into complex technical problems and researching issues when needed. His project required him to have a detailed understanding of multiple platforms, Aruba IoT Operations and Microsoft Azure, as well as other technical areas, including IoT (Internet of Things) and networking. It was heartening to see him respond to challenges including working with partners and vendors independently to resolve issues in a timely manner. One instance that comes to mind is when he was confronted with a persistent problem, he reached out to the vendor directly, without prodding from the mentor, to resolve the problem. In this case it took multiple calls since there were issues with the vendor's framework.

Teamwork is the cornerstone of a successful organization and HPE Aruba Networking is no different. Nick has a good attitude and work ethic, going the extra mile including working late when needed. He collaborated well with the team and the team in turn had only positive things to say about him. Part of being successful in one's work is understanding the software development process and how organizations turn out quality products. A quick learner, Nick understood the necessity of following institutional processes to deliver on his project.

Nick has a bright future ahead of him and I am sure he is going to scale higher peaks as his professional career proceeds. I highly recommend him for any opportunity he pursues, if his stint as intern at HPE Aruba Networks is any indication.

Please feel free to contact me if you require any further information.

Yours sincerely,



Kannan Konath