

Khanh Van

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Experience

Software Engineer II | State Farm

Java, Go, Python, AWS, REST APIs, PostgreSQL, Docker, Kubernetes

Mar 2026 – Present

Richardson, TX

- Developed **high-throughput APIs serving ~1M+ requests/day** for real-time policy retrieval across distributed enterprise systems, supporting scalable and reliable communication across core policy workflows.
- Led the 1st-place team in State Farm's 2026 Hackathon**, building an AI collision-reconstruction app that converts spoken and written accident descriptions into **3D scene visualizations**; selected for **productization as an official claims feature**.
- Modernized legacy enterprise policy platforms through **AWS migration and microservices architecture**, enabling independent deployments and reducing deployment time by **~25%** while improving scalability and maintainability.
- Architected an internal **multi-source RAG system** over engineering documentation and repositories using vector embeddings and MCP services, delivering context-aware LLM responses to accelerate developer knowledge retrieval and reduce search overhead.
- Built a centralized data orchestration layer integrating **5 enterprise insurance domains**, strengthening cross-system reliability through schema design and API standardization while reducing request latency by **up to 150ms**.

Software Developer II | Paycom

PHP, C#, JavaScript, React, MySQL, Docker, Kubernetes

June 2025 – Mar 2026

Irving, TX

- Developed and maintained **core workforce-scheduling features** spanning schedule archival, attendance exception calculations, and employee scheduling workflows supporting core workforce-management operations across a production HR platform.
- Reduced Scheduling bugs and errors by **~30%** through validation and core-logic refinements, improving module stability.
- Expanded **automated validation** for scheduling workflows, reducing manual regression effort and improving release confidence.
- Automated build, test, and deployment with **GitLab CI/CD**, reducing release errors and improving delivery consistency.

Software Engineer Intern | Alkami Technology

Java, Python, Scikit-Learn, Spring Boot, REST API, AWS, PostgreSQL, Docker, Jira

June 2024 – Sep 2024

Plano, TX

- Designed and deployed a rule-based and ML-augmented backend service (Java, Python) for real-time fraud detection, integrating PostgreSQL and RESTful APIs to support alerting workflows and achieving over **90%** detection accuracy.

Retail IT Intern | Royal Dutch Shell

C++, ServiceNow, API, Analysis, Research, Planning

June 2019 – Aug 2020

Houston, TX

- Developed and integrated a geofencing-based “Arrived At The Station” feature using Google Maps API, enabling real-time user notifications, while collaborating on RESTful API development and reducing deployment delays by **12%**.

Research

Hallucination Analysis in LLMs | University of Texas at Austin

Jan 2026 – May 2026

- Constructed **evaluation benchmarks** and analyzed **hallucination**, **correctness**, and **confidence** behavior across multiple LLMs.
Publication: Van, Khanh. “*Demonstrating Hallucination in Modern LLMs and Training a Response-Level Detector.*” University of Texas at Austin, 2026. [Paper] [Repository]

Research Associate | University of Texas at Dallas

Oct 2024 – May 2025

- Performed **multimodal data annotation** for meme analysis, contributing to **dataset construction** workflows for AI models.

Education

M.S. Computer Science | University of Texas at Austin

GPA: 3.86 / 4.0

May 2027 (Expected)

B.S. Computer Science (Collegium V Honors) | University of Texas at Dallas

GPA: 3.70 / 4.0

May 2025

Technical Skills

Languages:	Java, Python, JavaScript, C#, C/C++, PHP
Frameworks & Libraries:	Spring Boot, Node.js, React, Flask, PyTorch, Scikit-learn, JUnit, Selenium
Databases:	PostgreSQL, MySQL, MongoDB
Tools & Platforms:	AWS, Docker, Kubernetes, Terraform, GitLab CI/CD, Git