

Khoa Xuan Dang

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EDUCATION

University of Cincinnati | *B.S. in Computer Science* | *GPA: 3.89* | *Dean's lists* | Cincinnati, OH | *Expected 05/2026*
Bellevue College | *A.S. in Computer Science* | *GPA: 3.85* | *Dean's lists* | Bellevue, WA | *12/2022*
Relevant courses: Object Oriented Programming, Artificial Intelligence, Data Structure and Algorithms, Database Design, Networking and Security, Operating System, Cloud Computing, Advanced Software Engineering.

EXPERIENCES

Matson Money | Mason, OH | *01/2026 – Present*
Phoenix, AZ | *03/2025 – 08/2025*

Software Engineering Co-op | *Azure, React.js, C#, Microsoft SQL Server, .NET, Docusign, Auth0, Sandbox, Salesforce*

- **Designed and owned 50+ secure RESTful APIs** supporting **500+ financial advisory firms** and **2,000+ daily users**, integrating Salesforce, SQL Server, and React portals.
- Built **authentication-aware workflows using Auth0**, enforcing secure access to sensitive financial and client data across internal and external systems.
- Collaborated with senior engineers to replace **50+ Jitterbit-based integrations** with in-house services, eliminating third-party dependency and saving **~\$40K annually**.
- Delivered a **fillable forms platform integrated with DocuSign**, reducing manual processing time by **~40%** and improving auditability.
- Migrated business-critical automation from PowerShell scripts into a **self-service ASP.NET Core MVC module**, reducing turnaround time from **~7 days to 1–2 hours**.
- Improved system reliability through **100+ unit and integration tests**, contributing to safer releases and long-term maintainability.
- Designed a **config-driven hierarchical category system**, eliminating **100% of recurring developer tickets** for UI taxonomy changes.

Picon Technology Co., Ltd | Da Nang, Vietnam | *05/2024 - 09/2024*

Software Engineering Intern | *FastAPI, PostgreSQL, LangChain, RAG, React, Supabase, Ragas, Slack API, PG Vector database*

- Developed a **Retrieval-Augmented Generation (RAG) AI assistant** to improve internal policy inquiry accuracy and response speed.
- Improved document retrieval accuracy using **LangChain similarity search with metadata pre-filtering**, achieving **~89% relevance**.
- Designed **prompt chaining strategies** for RAG, reaching **~85% response consistency** and **~93% faithfulness (Ragas)**.
- Built **evaluation pipelines using Ragas metrics and LangSmith**, monitoring relevance, faithfulness, and latency across the full AI lifecycle.
- Investigated **multi-agent AI architectures** to improve response accuracy, operational efficiency, and reduce human intervention.
- Containerized services and deployed via **Kubernetes-based CI/CD**, improving deployment reliability and system availability.

Sharedi | Mountain View, CA | *05/2024 - 12/2024*

Software Engineering Intern (Part-time) | *Java Spring Boot, Cockroachdb, ReactJS, NextJS, Docker, AJAX*

- Architected the core backend system using Java Spring Boot and CockroachDB, designing RESTful APIs for 5 mission-critical services (mentor profiles, bookings, availability, payments, Google Calendar sync) powering end-to-end mentor discovery and scheduling.
- Improved backend reliability and regression safety by implementing mock-based unit tests, DB sanity checks, and CI validation, achieving **95% test coverage** and preventing multiple pre-production critical failures.

PROJECTS

Mind map generator | AWS Lambda Hackathon | *06/2025*

Fullstack Engineer | *Next.js, FastAPI, AWS Lambda, S3, API Gateway, AWS SAM, Langchain*

- Built a **serverless AI API** that transforms unstructured text and PDFs into **structured knowledge graphs** using LLMs.
- Designed stateless, scalable APIs deployed via AWS Lambda and API Gateway.
- Delivered Chrome extension support, enabling seamless integration into client apps and frontend tools.

TECHNICAL SKILLS

Languages: Python, C/C++, C#, Java, Prolog, Matlab, Html, Css, JavaScript.

Frameworks/Libraries: React.js, Next.js, Django, FastAPI, Spring Boot, Flask, .NET, LangChain, LangSmith.

Cloud/DevOps/Others: Kubernetes, Helm, Redis, Elasticsearch, AWS, Lambda, S3, Azure, Auth0, Sandbox, Salesforce.

Database: PostgreSQL, CockroachDB, Redis, Elasticsearch, Supabase, Microsoft SQL Server, DynamoDB, Vector Database.

Machine Learning: Large Language Models (LLMs), Retrieval-Augmented Generation, Multi-Agent.