

# Khoa Xuan Dang

dxkhoa02@gmail.com | +1(206)-617-9818 | linkedin.com/in/khoa-dang-ba97b922b | github.com/KhoaXuanDang

## EDUCATION

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

## EXPERIENCES

<b>Matson Money</b>	Mason, OH	<i>01/2026 – Present</i>
	Phoenix, AZ	<i>03/2025 – 08/2025</i>
<b>Software Engineering Co-op</b>   <i>Azure, React.js, C#, Microsoft SQL Server, .NET, DocuSign, Auth0, Sandbox, Salesforce</i>		
<ul style="list-style-type: none"><li>• <b>Designed and owned 50+ secure RESTful APIs</b> supporting <b>500+ financial advisory firms</b> and <b>2,000+ daily users</b>, integrating Salesforce, SQL Server, and React portals.</li><li>• Built <b>authentication-aware workflows using Auth0</b>, enforcing secure access to sensitive financial and client data across internal and external systems.</li><li>• Collaborated with senior engineers to replace <b>50+ Jitterbit-based integrations</b> with in-house services, eliminating third-party dependency and saving <b>~\$40K annually</b>.</li><li>• Delivered a <b>fillable forms platform integrated with DocuSign</b>, reducing manual processing time by <b>~40%</b> and improving auditability.</li><li>• Migrated business-critical automation from PowerShell scripts into a <b>self-service ASP.NET Core MVC module</b>, reducing turnaround time from <b>~7 days to 1–2 hours</b>.</li><li>• Improved system reliability through <b>100+ unit and integration tests</b>, contributing to safer releases and long-term maintainability.</li><li>• Designed a <b>config-driven hierarchical category system</b>, eliminating <b>100% of recurring developer tickets</b> for UI taxonomy changes.</li></ul>		

<b>Picon Technology Co., Ltd</b>	Da Nang, Vietnam	<i>05/2024 - 09/2024</i>
<b>Software Engineering Intern</b>   <i>FastAPI, PostgreSQL, LangChain, RAG, React, Supabase, Ragas, Slack API, PG Vector database</i>		
<ul style="list-style-type: none"><li>• Developed a <b>Retrieval-Augmented Generation (RAG) AI assistant</b> to improve internal policy inquiry accuracy and response speed.</li><li>• Improved document retrieval accuracy using <b>LangChain similarity search with metadata pre-filtering</b>, achieving <b>~89% relevance</b>.</li><li>• Designed <b>prompt chaining strategies</b> for RAG, reaching <b>~85% response consistency</b> and <b>~93% faithfulness (Ragas)</b>.</li><li>• Built <b>evaluation pipelines using Ragas metrics and LangSmith</b>, monitoring relevance, faithfulness, and latency across the full AI lifecycle.</li><li>• Investigated <b>multi-agent AI architectures</b> to improve response accuracy, operational efficiency, and reduce human intervention.</li><li>• Containerized services and deployed via <b>Kubernetes-based CI/CD</b>, improving deployment reliability and system availability.</li></ul>		
<b>Sharedi</b>		
Mountain View, CA <i>05/2024 - 12/2024</i>		

<b>Software Engineering Intern (Part-time)</b>	<i>Java Spring Boot, Cockroachdb, ReactJS, NextJS, Docker, AJAX</i>	
<ul style="list-style-type: none"><li>• 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.</li><li>• Improved backend reliability and regression safety by implementing mock-based unit tests, DB sanity checks, and CI validation, achieving <b>95% test coverage</b> and preventing multiple pre-production critical failures.</li></ul>		
<b>PROJECTS</b>		

<b>Mind map generator</b>	AWS Lambda Hackathon	<i>06/2025</i>
<b>Fullstack Engineer</b>   <i>Next.js, FastAPI, AWS Lambda, S3, API Gateway, AWS SAM, Langchain</i>		
<ul style="list-style-type: none"><li>• Built a <b>serverless AI API</b> that transforms unstructured text and PDFs into <b>structured knowledge graphs</b> using LLMs.</li><li>• Designed stateless, scalable APIs deployed via AWS Lambda and API Gateway.</li><li>• Delivered Chrome extension support, enabling seamless integration into client apps and frontend tools.</li></ul>		
<b>TECHNICAL SKILLS</b>		

**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.