

Vy Ngo

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Technologies & Skills

- **Languages:** Python, Java, Javascript, SQL
- **Frameworks & Platforms:** Spring Boot, Flask, FastAPI, VueJS, Django
- **Tools:** PostgreSQL, Git, AWS (Lambdas, Eventbridge, SQS, EC2, ECS), Docker, Snowflake, Azure, Dagster, Redis
- **Skills:** Full-stack Development, Data Analysis, CI/CD, Cloud Infrastructure, Monitoring, System Design, Leadership

Education

Drake University, Des Moines, IA — B.S. in Computer Science, Mathematics & Data Analytics

August 2016 - May 2020

Employment

Technical Lead, AI	Valence	May 2024 - Present
<ul style="list-style-type: none">● Key builder from series A to a \$50 Million series B raise● Built an AI powered performance management platform<ul style="list-style-type: none">○ Developed an AI powered leadership and career development coach○ Optimized both real-time and offline job systems to generate insights for users.○ Built integrations with Google and Microsoft products to enrich the platform● Built a fully provider agnostic system to consume OpenAI and Anthropic APIs with fallbacks to increase reliability of services.● Worked directly with clients to pass security and compliance requirements across numerous F500 organizations.● Worked across the entire tech stack using a Django backend and VueJS frontend.● Helped grow the engineering team from 3 -> 13 engineers<ul style="list-style-type: none">○ Led a team of 10 engineers across 2 teams○ Defined engineering culture and developed a leveling framework for engineers○ Defined processes and communication pipelines between engineer and the rest of the org		

Fractional CTO	Coralx Foundation	March 2025 - Present
<ul style="list-style-type: none">● Led a team of young engineers and graduate students to build an AI research assistant at an NGO focused on building solutions for coral conservation.<ul style="list-style-type: none">○ Built an ETL pipeline to ingest research paper data.○ Implemented semantic chunking, Graph-RAG, and built evaluation pipelines.○ Built out the entire backend with FastAPI and frontend with ReactJS.		

Software Engineer II	Jetty National Inc.	July 2022 - May 2024
<ul style="list-style-type: none">● Led a number of projects including:		

- The implementation of a **mock server** that enabled **comprehensive testing** without relying on data from external integrations.
 - Designed a **standardized framework** for external integrations
 - Planned and implemented several features improving visibility for our **event driven architecture**.
 - Created standards for creating and using **internal libraries**
 - Designed and led a project to create a standardized ledger for residents
- Developed features for and maintained an **ETL pipeline** using **AWS Lambda**, **Eventbridge** and **SQS** responsible for ingesting data for **millions of residents daily**.
- Built **Flask APIs** to service several core products and maintained the data models.
- Improved monitoring by creating **Datadog metrics** and **dashboards** driven by **structured logs**
- Contributed to **production support** and played a vital role in debugging a number of production breaking issues.

Software Engineer

Discover Financial Services

September 2020 - July 2022

- Developed and maintained biometric login features for Discover's mobile application using public private key cryptography.
- Created **Spring Boot microservices** to enhance user experience when registering biometrics and logging in using biometrics.
- Simplified API flows to improve successful biometric logins by over **20%** and reduced login times by nearly **50%**.
- Modernized and onboarded cloud applications to a modern **CI/CD** pipeline improving release cadence
- Contributed to the client side of the Discover mobile app using **React Native** and **Redux**.
- Developed automated unit, acceptance, integration, performance and other end to end tests to reduce manual testing time.