

Khue Doan

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EDUCATION

DePauw University

(Expected) May 2027

Bachelor of Arts in Computer Science and Business Analytics **GPA: 3.8**

Coursework: Data Structures and Algorithms, Object Oriented Programming (OOP), Web Development, Data Mining, Mobile Development, Computer System, Artificial Intelligence

Awards:

- **Silver Medalist**, ranked 16th out of 100+ competitors in **2023 ICPC Mid-Central USA Regional Contest**
- **Top 10**, **Microsoft** Imagine Cup Junior - Vietnam

EXPERIENCE

Google

May 2025 – Aug 2025

Associate Software Developer Intern

- Google Shopping Team
- Built a low-latency ingestion pipeline using **Flume MapReduce**, **Protobuf**, and **C++** that concurrently processes **35 B+ Google Shopping Graph** listings to fetch, cleanse, validate merchant data, and compute per-listing shipping costs; cut end-to-end debugging time by **30 %**.
- Designed a modular **C++** validation library that enforces data integrity, legal compliance, and freshness checks; rapidly adopted by cross-functional teams across **Google Shopping** to generate accurate fulfillment signals and strengthen service stability.

VNPT Technology

Apr 2024 – Aug 2024

Software Engineer Intern

- Developed 7 APIs in **Java Spring Boot** to encrypt and decrypt event payloads from **Tuya Cloud Platform**, and utilizing **Kafka** for delivering to VNPT cameras backend, securing transactions for **30,000** user cameras
- Used **Spring Boot** and **Java** to develop 7 APIs to encrypt and decrypt event payload from **Tuya Cloud Platform** to VNPT Technology cameras' back-end, resulting in secured transactions for **30,000+ user cameras**
- Architected **real-time monitoring system** using **Prometheus**, **Grafana**, **Apache JMeter**, integrated with **CI/CD pipeline**, enabling early detection of service bottlenecks and reducing maintenance costs by **20%**
- Built a dynamic admin dashboard using **React.js**, **Redux**, **Material UI** and **TypeScript**, connecting to **Spring Boot APIs** to monitor encrypted camera data, accelerating debugging workflows for **5+** engineering teams

DePauw University

August 2024 – Present

Research Assistant

- Built lightweight **operating system** on **Raspberry Pi** using **Java**, supporting remote code execution and real-time GPIO control through **process scheduling** and file I/O, helping 100+ students run and test code more efficiently
- Conducted research on applying **reinforcement learning** models to stock market prediction using **Python**, **TensorFlow**, and **Pandas**, achieving a 12% increase in forecast accuracy on S&P 500 historical data

PROJECTS

Unlockr | Next.js, Javascript, Vercel, PostgreSQL, Supabase, Ethereum, Firebase

Jul 2024 – Present

- Developed crypto smart contract with **Foundry**, **Solidity**, and **Ethereum** using the **OpenZeppelin ERC-721** standard to enable users to schedule future access to digital capsules, securing over 200 time-released assets
- Designed and optimized capsule metadata storage using **PostgreSQL** and **Supabase**, implementing indexed relational schemas and RLS (Row-Level Security) to ensure fast, secure access control for 200+ digital assets
- Implemented 9 RESTful APIs with **Next.js** and deployed via **Vercel**, integrating **SendGrid** and **Firebase** for event-triggered notifications, improving user engagement by 20% and supported seamless capsule delivery for 80+ users

DeeDee | React.js, Golang, MongoDB, Langchain, Python, OpenAI LLM

Feb 2024 – May 2024

- Utilized **React.js**, **Golang** and **MongoDB** to develop 12 APIs, creating fully functional web application that takes users details into tailored ice-breaker email and accordingly keep a database of recruiter's information and preferences
- Built personal email generation system using **LangChain**, **Python**, and **OpenAI LLM**, leveraging entity extraction and prompt chaining to generate context-aware ice-breakers from recruiter and user LinkedIn profiles.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, Golang, Kotlin, PHP, Erlang, TypeScript, HTML/CSS

Frameworks: React.js, Express.js, Node.js, Next.js, Docker, Flask, Angular, Django, gRPC, Pytorch, LangChain, Numpy

Tools: Git, Prometheus, Grafana, Jmeter, Postman, Figma, Vercel, RabbitMQ

Databases: MySQL, MongoDB, PostgreSQL, Redis, Firebase