Minh Vu

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SUMMARY

MS Computer Science student passionate in Backend Development, Distributed System, and Applied Machine Learning

EDUCATION

University of Massachusetts Amherst

Master in Computer Sciences *Sep 2025 - May 2026*

Bachelor of Science in Computer Sciences and Mathematics *Sep 2021 - May 2025*

GPA: 3.9, Dean's List (4 years), Chancellor's Award, Cum Laude

SKILLS

Languages: Golang, Java, Python, JavaScript, HTML5, CSS3, C/C++, PostgreSQL/MySQL, Swift, Dart

Tools: Azure, AWS, GoFiber, Gin, Spring Boot, Django, Docker, Redis, RabbitMQ, MongoDB, GraphQL, gRPC, Angular, ReactJS, NodeJs, Flutter, Tailwind CSS, Pytorch, Tensorflow, Sklearn, Git, Jenkins, Bazel, Terraform, Figma

Certifications: Google Cloud Architecture, Deploy and Manage Google Cloud Spanner, Google VertexAI

EXPERIENCE

Google New York, NY

Software Engineer Program (G-SWEP) Fellow *July 2025 – Oct 2025*

- Outperformed **400+ applicants** to participate in a highly selective 10-week virtual BASTA x G-SWEP Program
- Led a team of 4 to design SDLC workflows, ideate solutions, and present a prototype for the last-mile transit challenge to Google engineers

Jack Applies Miami, Fl

Software Engineer Intern - Job Platform Developer *May 2025 – Aug 2025*

- Architected and developed a scalable resume generation service using **AWS** and **Azure OpenAI API** serving **25,000 daily** US job seeker, reducing average resume generation time by 80%
- Designed an event-driven resume-processing pipeline using **AWS SQS**, **Lambda**, **S3**, with an **MCP/Skyvern** execution layer, eliminating cron-triggered race conditions and ensuring ordered execution for **200+ concurrent jobs**
- Automated CI/CD pipeline with **Github Actions**, bash scripts and integrated **unit testing** to deploy to **AWS EC2**
- Improved resume content generation using **LangChain** prompt chaining, improving beta-user satisfaction by 50%, with built-in log and error analytic using **AWS CloudWatch** and **AWS SNS**

FPT Software Hanoi, VN

Software Engineer Intern - Web Developer *Jun 2023 - Sep 2023*

- Built and optimized the web platform for nationwide Japanese pharmacy chain using **AngularJS, TypeScript**, and **.Net**, serving **700+ pharmacies** and **6,000 visits daily**, achieving **99,99% uptime**
- Built real-time drug inventory tracking system using **NgRx** and **RxJS**, saving **20 hrs/week** of manual auditing work
- Maintained drug inventory data consistency for **20,000+ records** between frontend and backend systems by implementing custom **Pub/Sub** architecture and reusable JavaScript SDK
- Improved sprint delivery consistency by following **Agile-Scrum** methodologies with Japanese development team, using **Jira** workflows to maintain clear communication and prevent task conflicts

PROJECT

BeatCode

Technology: FastAPI, PostgreSQL, OpenAI, Claude Code, Docker, Bash, Protobuf API, Ansible, Svelte

- Launched a Leetcode battle platform using FastAPI and PostgreSQL, attracting **1000+** users in 12 hours of launch
- Enabled real-time gameplay for **300+** concurrent game rooms by integrating WebSocket with Protobuf APIs for low-latency client-server communication.

XPloreIt

Technology: Meta Quest, Vapi AI, Gemini, Claude, WebRTC, Web Socket, Vue.js, OpenCV, NLP, Firebase

- Won 2nd Place at HackUMass for developing a VR assistant that guided older adults (75+) through daily activities (digital tasks, household chores)
- Improved elderly user accessibility by designing WebRTC voice system with simplified language prompting, sequential step guidance, and confirmation loops, reducing tech anxiety for seniors with limited experience

ACHIEVEMENT

1st Place hackathon at University of Rochester (200+ participants) *Nov 2025*

2nd Place hackathon at UMass Amherst (1000+ participants) *Nov 2024*

2nd Place Collegiate Chess Tournament - Elo 2100 (Top 0.3% Worldwide) *2021 - Present*