**Minh Vu**

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| **Work Experiences** |  |
| **Avocademy (YC W22)** | **Jun 2024 – Aug 2024** |
| Software Engineer Intern | Remote, US |
| * Leveraged OpenAI API to engineer a job classification system delivering tailored recommendations, boosting job relevance by 50% * Utilized React and SpringBoot to develop an auto tailored job application using serverless and microservice architecture * Streamlined the extraction of 750+ daily job postings and automated applications using Fire Crawler, PuppeteerJS, and Playwright * Managed 70,000+ database entries to efficiently monitor job posting, user data, and platform activity using MongoDB and Supabase * Set up Github CI/CD pipeline for A/B and E2E testing and deployment on Vercel, increasing customer satisfaction by 30% | |
| **FPT Software** | **Jun 2023 – Aug 2023** |
| Software Engineer Intern | Hanoi, Vietnam |
| * Led an AngularJS-TypeScript website for managing prescription, serving Japan’s Pharmacists Association with 500-100 daily visits * Refined the company's JavaScript SDK, enabling functionality and seamless integration for over 350+ UIs and modals * Designed Observer pattern to implement two-way data binding, synchronizing 20,000 data entries between UI and data store * Managed tasks and schedules in fast-paced environment, improving communication and collaboration using Agile-Scrum method | |
| **Viettel AI** | **Jun 2024 – Aug 2024** |
| Machine Learning Engineer Intern | Hanoi, Vietnam |
| * Deployed Microsoft’s GraphRAG data retrieval into sociological documentation, achieving 30% improvement in F1 score * Enhanced employee property search using Solr for text and SBERT for semantic search, boosting mean average precision by 25% | |
| **University of Massachusett Amherst** | **Sep 2022 – Current** |
| Teaching Assistant | Amherst, MA |
| * Functioned as a teaching assistant for 1,500+ students across 6 consecutive semesters * Led instruction in DSA, Web Programming, Programming Methodology, Discrete Mathematics, and Machine Learning class | |
| **Personal Projects** |  |
| **CloudCueAI |** *AWS Lambda, API Gateway, S3, Transcribe, CloudWatch, SAM Cli, ExpressJS, Flask* | |
| * Leveraged AWS Lambda & Transcribe to build live word prediction service for mock interview, boosting screening success by 50% * Integrated AWS S3 for secure transcript storage and API Gateway to enable low-latency, cutting transcription delays by 30% * Fine-tuned Facebook OPT-1.3b for word suggestions and visualized results via React-D3-Cloud, boosting users engagement by 40% * Engineered a WebSocket system for live audio streaming and real-time transcription with sub-200ms latency | |
| **Beatcode |** *FastAPI, RestfulAPI, Docker, WebSocket, PostgreSQL, PassLib, SQLAlchemy* | |
| * Utilized Python and FastAPI to design a scalable multi-client LeetCode game platform, achieving 500+ players during beta * Optimized Docker container for code judging and WebSocket for reliable gameplay connections, supporting 1,000+ concurrent users * Engineered PostgreSQL to track player performance metrics and integrated OpenAI to analyze runtime complexity and provide feedback, increasing code acceptance rates by 18% * Built OAuth, session management with Passlib, and CORS support client-server interaction, improving security compliance by 40% | |
| **OhEss |** *Google Lighthouse, React, Linux, Kolibri, NextJS, Vercel* | |
| * Engineered a web-based Windows 10 operating system replica with TypeScript and React, achieving a 100% Google Lighthouse SEO score for seamless UI interaction * Integrated Kolibri and Linux programs into a NextJS interface on Vercel, enabling in-browser files hosting for 200+ users | |
| **Sculpt AI |** *Tensorflow, OpenCV, SAM model, MediaPipe* | |
| * Pioneered 3D solution for Metaverse platforms, using AI-based image cropping and Blender modeling, cutting manual effort by 30% * Implement body pose tracking and measurement with MediaPipe, achieving a prototype success rate of 85% during the hackathon | |
| **Technical Skills** |  |
| * Languages: Java, Python, JavaScript, Typescript, HTML, CSS, C/C++, C#, Go, Rust, Swift, Kotlin * Libraries/Frameworks: MongoDB, ExpressJS, ReactJS, NodeJS, AngularJS, SpringBoot, Docker, SQL, Supabase, PouchDB | |
| **Education** |  |
| **UMass Amherst** | **May 2026** |
| Master of Computer Science and Mathematics - GPA: 3.9 | Amherst, MA |
| * Courses: Algorithm for Data Science, Discrete Mathematics, Algorithm Design, Search Engine, Computer Systems, Advance Linear Algebra, Programming Methodology, Machine Learning, Operating System, Computer Architecture | |