Ngoc Linh Le

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Education

Mount Holyoke College, South Hadley, MA   **Expected graduation: May 2027**
Major: Computer Science   **GPA**: **3.73**/4.00
Relevant Coursework: Data Structures, Algorithms, Software Design and Development, Computing Systems, Calculus, Discrete Mathematics, Linear Algebra, Math Experimentation, Statistics, Data Science, Artificial Intelligence
Leadership: The STEAM Project (Co-founder), Vietnamese Student Association (President), Girls Who Code MHC (Technical Event Coordinator), Vietnamese and English Tutor

Technical Skills

Programming: Python, Java, JavaScript, TypeScript
Systems, Cloud & Databases: Linux, Docker, MongoDB, SQL, RabbitMQ, MinIO, CI/CD Pipelines, Vercel, Azure
Frameworks: FastAPI, Node.js, Express.js, React.js, Next.js, REST API
Tools: Git, GitHub, Postman, DrawIO, Figma (UI/UX Prototyping and Engineering)

Work Experience

Software Engineering Intern — FPT IS   *June 2025 – Sept 2025*

- Architected and implemented a **full-stack OCR gateway** with **FastAPI** and **MongoDB**, enabling seamless and highly secure document uploading and processing for **1000+ active users**.
- Designed and deployed **15+ API endpoints** and a modular **microservice architecture** and **data modeling** for **authentication with JWT**, input classification, OCR execution, storage, delivery.
- Built the **frontend architecture** with **Next.js, NextUI, Axios, and React Query**, optimizing server state management and enhancing user experience with responsive **UI/UX**.
- Containerized microservices with **Docker**, creating a shared network for inter-service communication and ensuring consistent, scalable deployments across multiple environments.
- Integrated **asynchronous message queues (RabbitMQ)** to optimize throughput and **reduce latency by 25%**.

Software Development Intern — Vietnam International Bank   *June 2024 - August 2024*

- Collaborated with interns and engineers to enhance **VIB's internal web application** used by VIB employees to access organizational news and employee' profiles using **MongoDB as database, React.js, Express.js, Node.js**.
- Designed **Postman API testing** workflows and comprehensive **unit tests**, **cutting bug reopen rate by 22%**.
- Worked on user research with 5,000+ employees and improved **UI/UX with Figma** and front-end's state management with **Zustand**, **boosting internal app productivity and interest by 40%** based on feedback from 500+ employees.

Teaching Assistant — Mount Holyoke College   *Sept 2024 – current*

- Led weekly lab sessions, office hours, and host 1:1 sessions for **+30 students**, assisting with **code reviews, debugging, and conceptual problem-solving** in **Java and data structures**.
- Provided feedback on major programming assignments and contributed to grading rubrics, helping students strengthen **algorithmic thinking** and **software design** skills, driving a **35% average improvement** in academic outcomes.

Projects

Subleazy — Web app streamlining student subleasing   Technical Lead & Full-stack Software Engineer
TypeScript, MongoDB, Next.js, Node.js, REST API, OpenAI API, Google Map API, Cloudinary, Tiptap, WebSocket, Socket.IO, Yjs, TanStack React Query, Shadcn, Figma, Postman, Unit Testing

- Awarded **Best UI/UX**, **2nd Favorite Project** and **Best Tech Lead** at the 3-month **Viet Tech Hackathon**.
- Led a **team of 4** in agile sprints, overseeing code reviews, testing, and deployment to maintain high delivery quality.
- Implemented the backend from scratch with REST APIs, schema modeling, business logic and CI/CD pipelines.
- Built a contract automation editor with Tiptap and OpenAI API, enabling AI-assisted review of agreements.
- Engineered a recommendation system combining vector search, text search, Google Map API to align customed housing preferences and suggest optimal sublease options, with **match accuracy up to 92%**.

The STEAM Project — STEAM Education Summer Camp   Co-founder, ex-President
Leadership, Project Management, Event Planning

- Initiated the **first student-led STEAM education** summer-camp project focusing on science experiments, math and coding challenges for underprivileged students interested in Ha Tinh, Vietnam.
- Managed project operation with department leaders and **50 members** in **5 departments**, successfully organized **2 STEAM Summer Camps** for **120 students** in 2022 and 2023.

Pennywise — Personal finance tracking web app   Full-stack Developer
TypeScript, MongoDB, Next.js, Node.js, Express.js, REST API, Clerk, Zustand, MaterialUI, Postman

- Built responsive UI with MaterialUI and Figma prototypes, improving usability and consistency across devices.
- Implemented authentication and user management with Clerk, ensuring reliable data protection and access control.
- Developed an algorithm to track income, expenses, and savings goals, enabling personalized financial insights for users.