

# 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, ex-President), Vietnamese Student Association (President), Girls Who Code MHC (Technical Event Officer)

## Technical Skills

**Languages and frameworks:** Python, Java, JavaScript, TypeScript, FastAPI, Node.js, Express.js, React.js, Next.js

**Systems, Cloud & Databases:** Docker, MongoDB, MinIO, CI/CD Pipelines, Vercel, Linux, TCP/IP, RabbitMQ

**Tools:** Git, GitHub, Postman, DrawIO, Figma (UI/UX Prototyping and Engineering)

**Data Science and AI/ML:** NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, Llamaindex, OpenAI API

## Work Experience

FPT IS — Software Engineering Intern

June 2025 – Sept 2025

- Architected a **full-stack OCR gateway** for **1000+ active users**, enabling high-throughput document processing.
- Developed a modular **microservice architecture** with **FastAPI** and **MongoDB**, implementing **15+ REST API endpoints** for JWT authentication, classification, OCR execution, and data 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%**.

Vietnam International Bank — Software Development Intern

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%**.
- 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.

Mount Holyoke College — Teaching Assistant

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 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

- 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 ensure quality delivery.
- Designed and implemented backend services with **Node.js**, **MongoDB**, and **REST APIs**.
- Built AI-powered contract automation editor using **Tiptap** and **OpenAI API** for automated agreement compilation.
- Developed a recommendation system combining **vector search**, **text search**, and the **Google Maps API** to align housing preferences and suggest optimal sublease options, achieving **92% match accuracy**.

[The STEAM Project](#) — STEAM Education Summer Camp

Co-founder, ex-President

- Founded the first **student-led STEAM education camp** in Ha Tinh, Vietnam, creating hands-on science experiments, math activities, and coding challenges for underprivileged students.
- Directed operations across **5 departments** and **50 members**, coordinating logistics, outreach, and curriculum design.
- Successfully launched and scaled **2 Summer Camps** (2022–2023) serving over **120 students**.

[Pennywise](#) — Personal finance tracking web app

Full-stack Developer

- Built responsive, user-friendly interfaces using **Next.js** and **MaterialUI**, guided by **Figma** designs.
- Integrated authentication and access control with **Clerk**, ensuring secure data handling for all users.
- Implemented algorithm to track income, expenses, and savings, providing users with personalized financial insights.