Nhat Nguyen

Email: nhat.tm.ng@gmail.com LinkedIn: in/nhat82 Mobile: +1-240-398-0776Github: github/nhat82

EDUCATION

University of Maryland

College Park, MD

Bachelor of Science in Computer Science (Machine Learning Concentration)

Dec 2025

- Honors: GPA: 3.56 Dean's List 2022, 2023
- Courses: Data Structures and Algorithms, Computer Systems, Object-Oriented Design, Artificial Intelligence, Machine Learning, Computer Vision

Experience

University of Maryland

College Park, MD, USA

Tech Lead — Capstone Project — JavaScript, Python, Flask

Jan 2025 - May 2025

- Spearheaded a full-stack web app with custom AI classifying 1,400+ plant species.
- Filtered nearby plants with real-time geolocation data, boosting accuracy to 80% from 65%.
- Built backup AR plant identifier with 85% accuracy ensuring uninterrupted engagement during outages.
- Led client-facing testings weekly, ensuring 100% on-time feature delivery and technical alignment.

AICycle Hanoi, Vietnam

Software Engineer Intern — Python, Tensorflow, PyTorch

Jun 2024 - Aug 2024

- Engineered a computer vision pipeline for license reading automation by customizing YOLOv5, vietOCR, and FastAPI, to 80% accuracy and cutting data entry time by 50%.
- Researched and implemented vehicle damage detection using edge detection, depth estimation, and segmentation algorithms with OpenCV and PyTorch.

Grassroots Grocery

NYC, USA

 $Software\ Engineer\ Intern\ --\ JavaScript,\ Airtable$

Jun 2023 - Aug 2023

- Automated 400+ delivery-driver pairings with zone restrictions and slot matching using JavaScript scripts in Airtable, reducing scheduling time by 80%.
- Implemented a concurrency-safe queue to resolve data racing in Airtable, improving accuracy to 90%.
- Optimized SQL query performance by refactoring slow scripts, decreasing execution time by 200ms per query.

Hack4Impact

College Park, MD

Software Engineer — TypeScript, JavaScript, React, Firebase

Aug 2022 - May 2023

- Developed a case management tool matching 4000+ underserved families to services, building responsive admin interfaces with React, Firebase, and Material-UI.
- o Migrated data workflows from Google Sheets to MongoDB via Payload CMS, automating 200+ form submissions using JavaScript and Integromat.
- Redesigned Hack4Impact's website with +10 **UI** improvements.

Projects

- Course Discovery: Built a full-stack platform with user interest tracking and personalized recommendations using Flask, and MongoDB, got 30% increase in user engagement with recommended courses within first quarter.
- GenAI Farmer Suggestion: Built a FastAPI backend and GenAI prompt system for a crop alert platform, integrating Google Gemini API with a Vite-based frontend, resulting in alerts being generated in less than 3 seconds.
- Feature Tracking: Developed a Python-based image keypoint tracker using Harris Corner Detection, deployed via Flask APIs for interactive frontend access.

Programming Skills

- Languages: Python, Java, JavaScript, SQL, Rust, HTML/CSS
- Frameworks/Tools: React, Node.js, FastAPI, Flask, MongoDB, Firebase, Docker, AWS
- ML Tools: TensorFlow, PyTorch, Pandas, Scikit-learn