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Nhat Nguyen

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github/nhat82

Education

University of Maryland College Park, MD
B.Sc. in Computer Science, Machine Learning Concentration (GPA: 3.46) *Graduating Dec. 2025*
Relevant Coursework: Object-oriented Programming, Data structures and Algorithms, Machine Learning, Artificial Intelligence, Software Engineering.

Technical Skills

Languages: Java, Python, PostgreSQL, JavaScript, TypeScript, HTML/CSS
Frameworks & Tools: Spring Boot, React, Flask, JUnit, pandas, NumPy, Tensorflow
Certification: AWS Cloud Practitioner (Issued May 31, 2025)

Experience

Lead Augmented Reality Engineer - Capstone Jan. 2025 – May 2025
University of Maryland *College Park, MD*

- Proposed and led a team of 3 to develop an Augmented Reality solution classifying 1,400+ local plant species using JavaScript and real-time geolocation.
- Conducted weekly client-facing tests, ensuring 100% on-time delivery and technical alignment in Agile workflow.
- Presented at Engineering Capstone Design Expo to judges and industry professionals.

Software Engineer Virtual Experience Jan. 2024 – May 2025
Forage *College Park, MD*

- Designed a simple and scalable hosting architecture based on AWS Elastic Beanstalk for a startup experiencing significant growth and slow response times. Described my proposed architecture in plain language ensuring my client understood how it works and how costs will be calculated.
- Drafted a UML class diagram representing a new reorganized architecture for the Lyft Rentals team. Implemented unit tests and added new functionality using test-driven development.

Software Engineer Intern May 2024 – Aug. 2024
AICycle *Hanoi, Vietnam*

- Customized YOLOv5 models and OCR with Python to extract license information from images, resulting in 96% accuracy and cutting data entry time by 50%.
- Researched and implemented vehicle damage detection using edge detection, depth estimation, and segmentation algorithms with OpenCV.

Software Engineer Intern Jun. 2023 – Aug. 2023
Grassroots Groceries *New York City*

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

Projects

Voice Expense Tracker | *Spring Boot, Java, React, PostgreSQL, AWS S3, Docker* Jun. 2025 – Present

- Developing a full-stack web application to log expenses with speech recognition and spending analysis, Spring Boot serving a REST API with React as the frontend.
- Currently using PostgreSQL to store data, AWS S3 to store receipt images.

Team Personality Matching | *Python, Flask, MongoDB* Feb. 2025

- Developed a full-stack web application using Flask to analyse and track team personality match and engagement.
- Implemented user management, password encryption, and authentication. Stored team data and interactions in MongoDB. Regularly worked with professor to get feedback and improve features.
- Visualized data to show team and class strength distribution using VisJS.