Hien Pham

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EDUCATION

Worcester Polytechnic Institute Worcester, MA
Bachelor of Science in Computer Science and Mathematics *Expected May 2026*
- Cumulative GPA: 3.97/4.0
- Related Coursework: Software Engineering, Data Structures & Algorithms, Object-Oriented Design, System Programming, Database Systems, Operating System

EXPERIENCE

Software Engineer January 2024 – April 2024
Worcester Polytechnic Institute *Worcester, MA*
- Served as Assistant Lead Engineer and Fullstack Developer in an Agile team of 10, steering daily Scrum meetings and driving the development of 50+ RESTful APIs with Express and Auth0 for user management
- Orchestrated secure PostgreSQL connections in Docker, enhancing data security and system reliability
- Led the design and implementation of data visualizations using Material-UI and a responsive service request page with Tailwind CSS, collaborate cross-functionally to improve user interface and experience
- Developed an interactive chatbot using Python and Flask, leveraging PyTorch for machine learning, to guide users with directional information and answer general inquiries about service requests at the hospital

Teaching Assistant March 2024 – Present
Worcester Polytechnic Institute *Worcester, MA*
- Conducting drop-in office hours to provide comprehensive support for students, addressing inquiries regarding software installation and weekly assignments
- Assess and troubleshoot computer problems brought by students
- Serving as a dedicated team coach for a group of 10 students, facilitating their progress and fostering collaborative problem-solving skills throughout their software engineering final project

Software Engineer Intern May 2023 – August 2023
SotaTek JSC *Hanoi, Vietnam*
- Led backend architecture for Blocklens App, employing NestJS, Docker, and Kafka, resulting in a resilient and scalable service on Linux
- Pioneered a data extraction algorithm from NoSQL databases, boosting predictive analysis accuracy for 1M Ethereum transactions/day, achieving a 10x performance boost
- Mastered NestJS advanced features to fortify app security and streamline data workflow, significantly reducing potential vulnerabilities
- Developed a Python-based Chatbot with 30+ RESTful APIs to leverage Etherscan.io data; trained with PyTorch for automated chart generation and financial insights within Linux ecosystems

PROJECTS

Depresso Extension | *Python, Flask, React, PostgreSQL* October 2022 – December 2022
- Developed a Google Chrome extension using Python to track moods and depressions signs of users
- Use sentiment analysis technique with the pre-trained "en-sentiment" model from The Flair sentiment classifer for NLP algorithm, with 95%+ accuracy rate when predicting emotions of users
- Implemented Flask server to bridge the NLP and frontend.

TECHNICAL SKILLS

Languages: C/C++, Python, Java, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Express, Flask, Redis, Material-UI, Mantine-UI, FastAPI
Developer Tools: Git, Docker, VS Code, PyCharm, IntelliJ, Eclipse, Linux, Bash
Libraries: pandas, NumPy, Matplotlib, PyTorch, TensorFlow

HONORS & AWARDS

First Prize, *Vietnam National Olympiad in Informatics (using C++ for 5 years)* March 2022
Gold Medal, *World Mathematics Team Championship* November 2018