

Hien Pham

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EDUCATION

Worcester Polytechnic Institute

Worcester, MA

Bachelor of Science in Computer Science and Bioinformatics & Computational Biology

Expected May 2026

- Cumulative GPA: 4.0/4.0
- Related Coursework: Software Engineering, Data Structures & Algorithms, Object-Oriented Design, Database Systems, Operating Systems, Cellular and Molecular Biotechnology, Statistics in Genetics and Bioinformatics
- Certifications: IBM Fullstack Software Developer, DeepLearning.AI: AI for Medical Diagnosis

EXPERIENCE

Software Engineer Internship

May 2024 – August 2024

FPT Information & System

Hanoi, Vietnam

- Developed backend features using Jmix, Java Spring Boot to monitor and secure 4,000+ daily bank transactions
- Decreased daily transaction report loading time by 2 minutes (80% improvement) through SQL query optimization, including index creation and the use of aggregation functions
- Improved app deployment times by 60% by integrating CI/CD pipeline using Gitlab and Kubernetes for software development lifecycle
- Implemented and deployed an Algolia search service into a 4-node Kubernetes cluster, optimizing server traffic by 25% on Oracle database

Software Engineer

January 2024 – April 2024

Brigham and Women's Hospital

Boston, MA

- Served as Assistant Lead Engineer and Full stack Developer in an Agile team of 10, steering daily Scrum meetings and driving the development of 50+ RESTful API 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 50+ students, addressing inquiries regarding software installation and weekly assignments
- Assess and troubleshoot computer problems brought by students
- Serving as a dedicated team mentor for a group of 10 students, facilitating their progress and fostering collaborative problem-solving skills throughout their software engineering final project

PROJECTS

Depresso Extension | MongoDB, Express, React, Nodejs, Nextjs

July 2024 – August 2024

- 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 classifier 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, Oracle), MongoDB, TypeScript, 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 Competitive Programming Olympiad (using C++ for 5 years)*

March 2022

Gold Medal, *National Youth Chess Championship*

August 2021

Gold Medal, *World Mathematics Team Championship*

November 2018