Quan Dinh

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Education

Purdue University - West Lafayette, IN May 2026
Bachelor of Science in Computer Science Honors GPA: 3.96 / 4.0

Relevant Coursework:

- **Completed:** Object-Oriented Programming, Discrete Math, Programming in C, Intro to Research Fundamentals, Computer Architecture, Data Structures & Algorithms
- **Enrolled:** Competitive Programming, Systems Programming, Linear Algebra

Related Experience

Department of Computer Science August 2023 – Present
Undergraduate Teaching Assistant West Lafayette, IN

- Collaborated with course coordinators and lecturers to cover topics including discrete mathematics (CS 182) and version control, terminal and command line interfaces, debugging software (CS 191)
- Guided 16-30 students during weekly office hours and grading assignments

Research

The Data Mine - Merck - LabLogs MSDS January 2024 – Present
Undergraduate Data Science Researcher West Lafayette, IN

- Developed a platform, using Python and NLP techniques, to tabulate and summarize key notations of chemical safety data sheets
- Established an automated data processing pipeline designed to extract information from various external chemical manufacturing websites

Urban Sustainability Modeling & Analysis Research Team August 2023 – Present
Undergraduate Research Assistant West Lafayette, IN

- Automated open-source data scraping from government portals and satellite imagery to gather insights into cities with bike-share systems
- Utilized Python scripting tools, including geopandas, gdal, and numpy, to investigate key variables impacting bike-share system performance, including GDP, population, weather, and traffic patterns
- Presented research findings at Purdue's 2023 Fall Undergraduate Research Expo

Projects

Simple C Compiler October 2023 – December 2023

- Developed a compiler for Simple C, a subset of C, utilizing Lex and Yacc for grammar definition and parsing
- Implemented x86-64 Assembly code generation for arithmetic, logical, and relational expressions, optimizing stack usage with register-based operations.

Marketplace Demo October 2022 – December 2022

- Created a marketplace demo using Java and its GUI library throughout a 2-month-long final project for CS 180: Object-Oriented Programming
- Designed a system featuring login/registering, databases, and product placements

Excellaca July 2021 – June 2022

- Coordinated a five-member group to build an interface for a self-study website using React.js, Material UI, Javascript
- Monitored website SEO and fanpage (500+ reach, 100+ registered users)
- Invited collaborators to introduce new lessons (consisting of 7 courses + 11 lessons)

Affilations

Purdue Global Engineering Alliance for Research and Education (GEARE) Program April 2023 – Present
CVS Health Student Mentorship Program Febuary 2024 – Present

Technical Skills

Languages: Java, Python, C, C++, JavaScript, HTML/CSS, Assembly, Swift, LaTeX
Frameworks: React.js, Node.js, Material-UI
Developer Tools: Git, GitHub, VS Code, Visual Studio, IntelliJ, Vim, UNIX, Bash, Vercel