Matthew Pham

Student

College sophomore interested in computer science and technology. Seeking an internship for Summer 2020 to gain industry experience.

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TECHNICAL COURSEWORK

CS 196 Freshman Honors

CS 173 Discrete Structures

CS 225 Data Structures

CS 296 Honors Course

MATH 286 Intro to Differential Eq Plus

ECE 120 Introduction to Computing Honors

ECE 220 Computer Systems & Programming

PROGRAMMING LANGUAGES

Java
● ● ● ● ●

C/C++
● ● ● ○ ○

Python
● ● ● ● ○

Golang
● ● ● ○ ○

HTML/CSS/Javascript
● ● ● ● ○

PROFESSIONAL EXPERIENCE

Software Engineer Intern
Hayward Quartz Technology, Inc.
June 2019 – August 2019   *Fremont, CA*
Achievements/Tasks

- Developed a platform to manage and track boules of crystal and other raw materials using Java, MongoDB, and Microsoft Access.
- Conducted various tests such as leak and visual tests on products to ensure the best possible quality and operated Coordinate Measuring Machines (CMMs) for tolerance analysis.
- Entered, sorted, and filtered data from CMMs and prepared the data for further analysis using Microsoft Excel.
- Worked with other engineering interns to create a framework to measure and manage furnace output data. I developed a front-end GUI in Python that is running on a Raspberry Pi.
- Wrote scripts in AutoIT to automate various tasks for the company, such as labor entry.

Software Development Intern
Wonderate, Inc.
June 2019 – July 2019   *San Jose, CA*
Achievements/Tasks

- Contributed to a mobile application in a team of software engineers that will streamline the mortgage loan process; worked with technologies such as React Native, MongoDB, and GraphQL.

Production Intern
Manutronics, Inc.
June 2016 – July 2016, May 2017 – July 2017   *Milpitas, CA*
Achievements/Tasks

- Oversaw the production of Printed Circuit Boards; managed a Surface Mount Technology pick and place machine; programmed each board and packaged the boards to send to customers.
- Diagnosed malfunctioning systems, equipment, and electrical parts, via using test equipment to identify the cause of breakdown.

CAMPUS INVOLVEMENT

Course Assistant (August 2019 - Present)
I am a course assistant for CS 125: Introduction to Computer Science. I assist with a weekly lab section and hold weekly office hours to help and engage newcomers to the computer science field.

Undergraduate Research Assistant (February 2019 - Present)
I work with Thong Nguyen at the University of Illinois Electromagnetics Laboratory to develop a web-based circuit simulator and assignment submission platform. Both tools will be used by ECE 400/500 level courses.

MechMania (February 2019 - Present)
Infrastructure Developer – I am on the backend infrastructure development team for MechMania, the AI hackathon at the annual UIUC student-run Reflections | Projections tech conference. We work on web-based tools that handle matchmaking, team registration, tournament logic, and connecting teams.

EDUCATION

Bachelor of Science in Computer Engineering & Minor in Mathematics
University of Illinois at Urbana-Champaign

Dean's List (Spring 2019)
Expected Graduation: Spring 2022   *Champaign, IL*