Hung Vu

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WORK EXPERIENCE

Google — August – November 2020
Software Engineer Intern — C++, Java
- Improving image quality and audio playback experience on **Chrome Downloads**

Microsoft — May – July 2020
Software Engineer Intern — C++, Powershell, Azure
- Improved the software validation automation infrastructure by implementing a controller that performs power cycle and system info for the Rack Manager by **90%**
- Designed an **NVMe** controller security **fuzz**, **DoS**, and **pen test** component for security compliance verification for the super low-latency **Azure Storage Acceleration Platform**

CWRU School of Medicine — May – September 2019
Research Assistant — Python, Pandas, NumPy
- Developed an internal **data visualization** tool for complex medical diagnoses
- Conducted research on predicting drug response in cancer cell lines using network-guided **feature selection** to reduce the training time of **classification model** with a dataset of **10,000** features by **50%**

CWRU Department of Computer and Data Science — August 2019 – May 2020
Teaching Assistant — Java, MATLAB, Data Structures
- Held weekly office hours to help **250 students** with course-related topics
- Prepared and graded programming, written assignments, and exams for students

AWARDS AND ACTIVITIES

ACM-ICPC North America Championship — 2018 – 2020
Competing in a team of 3 CWRU students against other universities by solving 11 algorithmic problems in 5 hours
- Founded the **first CWRU ICPC team** and led the team to the first North American Championship in 2020
- Placed **16 out of top 60** universities from 11 different regions in the United States at Georiga Tech
- Placed **6 out of 200** teams in 2019 East Central North America Regional Contest
- Placed **15 out of 200** teams in 2018 East Central North America Regional Contest

CWRU ACM / Hacker Society — September 2018 – Present
Vice President
- Introduced and organized competitive programming workshops for undergraduate students
- Held weekly lectures and competitions on **Dynamic Programming**, **Graph Theory**, **Number Theory**

PERSONAL PROJECTS

Nacsa — *Python, Django, SQLite* — ⌾/Nacsa
- A service exchange web application that connects students in a college with different skills to offer their services to others

FlexBot — *Node.js, Express.js, Knex.js, Objection.js, Dialogflow* — ⌾/Flexbot
- A **Messenger** chatbot to set reminders and daily message subscriptions that intgerates **Natural Language Processing** to classify different commands

SuiteChat — *Python, Flask, Socket.IO, PostgeSQL* — ⌾/SuiteChat
- A **real-time** chatting application to assist communication and task assigning in a suite

TECHNICAL SKILLS

Languages C++, Java, Python, Javascript, Haskell, Powershell
Technologies Flask, Django, Node.js, PostgreSQL, Tensorflow, Azure

EDUCATION

Case Western Reserve University — Expected May 2022
Bachelor of Science in Computer Science
- Relevant Coursework: Data Structures, Algorithms, Operating Systems, Computer Networks, Software Engineering, Programming Languages, Machine Learning, Deep Learning