Ivor Huang

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EDUCATION

University of Michigan   Ann Arbor, MI
B.S.E. Computer Science, expected April 2018   September 2015 – Present
- GPA: 4.00/4.00
- Completed Coursework: Data Structures and Algorithms, Introduction to Computer Organization, Discrete Mathematics, Programming and Elementary Data Structures, Microprocessors and Toys
- Current Coursework: Introduction to Operating Systems, Introduction to Machine Learning, Introduction to Computer Security, to be completed April 2017

WORK EXPERIENCE

NEXTEV USA   San Jose, CA
Engineering Intern   June 2016 – August 2016
- Developed a prototype Android application demonstrating the capabilities of the Mapbox API as part of NEXTEV USA's partner assessment process (Java)
- Designed and developed concept HVAC Android application (Java)

PROJECTS

Touchscreen-based electronic drum kit
- Implemented an ISA in Verilog for a basic microprocessor on an Altera DE2-115 Development Board
- Wrote drivers in assembly using aforementioned ISA for the VGA display, touchscreen, speakers, SD card reader, and serial output
- Worked closely in a group of developers to meet all deadlines by keeping everyone up to speed and planning meeting times to discuss progress

Content-aware image resizing program
- Developed program implementing an algorithm that calculates "importance" of each pixel based on similarity to pixels surrounding it and removes "seams" of least important pixels (C++)

Simple search program
- Developed program that uses tf-idf cosine similarity to find a document within a given corpus that is most similar to a given query (C++)

Fantasy basketball draft program
- Wrote program that selects players for fantasy basketball team from a set of players using player statistics such as offense, defense, and shooting accuracy (C++)

LEADERSHIP POSITIONS AND OTHER EXPERIENCE

MPowered Entrepreneurship   May 2016 – Present
Technology Director
- Utilize CodeIgniter framework to develop and maintain the main MPowered website and 5 other websites for sub-teams of MPowered
- Manage a 10 member team to implement changes to MPowered websites

University of Michigan Supermileage   September 2015 – Present
Race Strategy Software Engineer
- Implemented proximity sensors using an Arduino microcontroller that detect when the distance between the University of Michigan Supermileage car and other objects during competition adversely affects the vehicle's performance (Java)
- Developed program on Raspberry Pi utilizing Google Sheets API to live update University of Michigan Supermileage car speed on Google Sheets (Python)
- Work in a team of around 5 members to develop any software-based vehicle add-ons

Asian American Association   October 2015 – Present
Events Chair, Freshman Representative
- Work with a 15 member team to plan and host Asian cultural and other social events for hundreds of attendants

SKILLS

Programming Languages – C++, Java, Python, MATLAB
Web Development Skills – HTML, CSS, CodeIgniter