Hung-Wei Wu

Email: wuxx1045@umn.edu
Phone: (612)-961-4145

Linkedin: https://www.linkedin.com/in/hungweiwu
Github: https://github.com/hungweiwu/
Website: https://hungweiwu.github.io

EDUCATION

University of Minnesota, Twin Cities, Honors: Computer Science, Mathematics Aug 2014 – May 2018

- GPA: 3.563, Solar Vehicle Project Team member, Treasurer of Philippines Student Association
- Classes Taken: Algorithms & Data structures, Computer Architecture, Operating Systems, Program Design

TECHNICAL SKILLS

- Proficient in: Java, C, Bash, Python
- Familiar with: C++, JavaScript, HBase, HiveQL

RELEVANT EXPERIENCE

Undergraduate Research Assistant, *University of Minnesota, Minneapolis, MN* Sep 2016 – Present

- Professor Anand Triparthi – Distributed Systems Lab – Website: http://ajanta.cs.umn.edu/
- Current Project: Beehive – A Parallel Programming System for Graph Problems
- Set up a fully distributive Hadoop cluster across four machines and experience programming with MapReduce
- Imported graph data from SNAP (Stanford Large Network Dataset Collection) into JSON for use with Apache Giraph

Undergraduate Teaching Assistant, *University of Minnesota, Minneapolis, MN* Aug 2016 – Present

- Taught two lab sections for CSCI1933: Introduction to Algorithms and Data Structures
- Used challenging lab exercises and projects to apply what was learned in lecture
- Explained and demonstrated major concepts to facilitate student learning

Database Development Intern, *UnitedHealth Group, Minnetonka, MN* Jun 2016 – Sep 2016

- Tasked with automating database quality tests that were previously done manually (HBase, Hive)
- Formulated and implemented a testing strategy that significantly cut down testing time
- 21 test cases incorporated into testing protocol

Innovation Intern, *Medical Device Center, Minneapolis, MN* Jun 2015 – Apr 2016

- Worked with postgraduate engineers and physicians to prototype devices that meets clinical requirements
- Wired and programmed microcontrollers to generate stable waves at extreme frequencies
- Worked with pressure sensitive resistors to prototype a device to alert paraplegics of formation of ulcers

Mobile Development Intern, *Kaj Labs LLC, Minneapolis, MN* Jun 2015 – Sep 2015

- Tasked with adding features as well as security to outdated Android apps
- Worked with a small group of developers to program a briefcase app for lawyers
- Features: intuitive and user friendly file organization, secure login

Web Developer, *Midwest Asian American Student Union, Minneapolis, MN* May 2015 – May 2016

- Wrote custom CSS and HTML to add custom features to a SquareSpace template
- Features: workshop registration, automated emails, real time count down timer
- Leveraged keywords and Google search to make site top three in results related to “MAASU”

PERSONAL PROJECTS

Minecraft Mod

- Worked over 100 hours on adding new interactive blocks and tools to Minecraft 1.7.10
- Gained experience working with open source APIs
- Features: Virus Block, Cure Block, Item Replicator, Cursed Sword

Internet of Things

- Created a black/white grid oscillator that flashes at a different frequency in each cell
- Utilized Java Threads and game loop programming to keep the main loop steady at 60 Hz
- Used to determine the location of Arduino board based on the frequency of light detected