

# Hung-Wei Wu

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Website: <https://hungweiwu.github.io>

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## OBJECTIVE

Computer science student fascinated with big data concepts, seeking a internship as a software engineer

## EDUCATION

**University of Minnesota, Twin Cities, Honors: Computer Science, Mathematics** Aug 2014 – Dec 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/>

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**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

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**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

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**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

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**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- Tasked with adding features as well as security to outdated Android apps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

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**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** Link: <http://bit.ly/2ceLrWG>

- Worked over 100 hours on adding new interactive blocks and tools to Vanilla Minecraft 1.7.10
- Gained experience working with open source API's (Minecraft) and how to leverage that to add new functionality
- Features: Virus Block, Cure Block, Item Replicator, Cursed Sword

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**Internet of Things** Link: <http://bit.ly/2c8Yp56>

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