|  |  |  |
| --- | --- | --- |
| John Compas | 10 N. Orchard, Apt. 23 Madison, WI 53715 | **573 - 489 - 8552**  **jcompas@wisc.edu** |

Computer science and electrical engineering student interested in a mix of software and hardware development with hands-on experience and direct applications.

# EDUCATION ~~|~~

|  |  |
| --- | --- |
| University of Wisconsin Madison*Majoring in Computer Science and Electrical Engineering*  * Dean’s List both semesters Freshman, Sophomore and Junior year | September 2015 - Present**3.64 GPA** |

# EXPERIENCE ~~|~~

# Hilldale Fellow and Researcher *- WEMPEC*,Madison, WI

### June 2018 - Current

* Developing a prototype attitude control device for microsatellites using magnetic bearings
* Helping a team in the WEMPEC lab develop and test a motor controller using a PicoZed with a Zynq SOC
* Working on a bare-metal system interfaced with a FPGA to implement control algorithms
* Obtained funding for self directed research project with grants from NASA and UW-Madison

# Mobile Application Developer *- Relativity*, Chicago IL

### June 2017 - August 2017

* Built deep linking into app using Branch.io
* Overhauled app in Xamarin using C# and Xcode to reconfigure UI to work on iPhones
* Fixed login and authentication token issues

# Software Development Intern *- Optum*, Minneapolis MN

### June 2016 - August 2016

* Won the Intern Combine Innovation Challenge for solution involving bacteriophage therapy
* Created a Java project to parse, search and manage insurance claim data
* Designed reports to present internally, a database to manage existing data, and performed data analytics

## Machine Learning Developer *- Blackthorne Capital Management*, Whitewater WI

### June 2015 - January 2016

* Implemented machine learning techniques in Java to analyze stocks and large amounts of text/twitter data with a team
* Built an unsupervised learning algorithm to find “topics” in large amounts of text
* Developed a website using PHP and mySQLi for users to score the sentiment of text

**EXTRACURRICULAR  ~~|~~**

**Hydrodesign Team Lead**, *Engineers Without Borders - Ecuador*

### September 2015 - September 2017

* Led team in constructing large sedimentation tank in rural Ecuador to improve community water quality
* Collaborated with professors, other teams, and professional engineers for outside guidance
* Traveled to Ecuador to evaluate success of system, and survey the community about future projects

**Gear Manager and Trip Leader**, *Hoofer Mountaineering Club*

### 2017 - Current

* Responsible for monitoring, purchasing, and renting out gear to members of the Mountaineering Club
* Leading trips and teaching new members basic through advanced skills in rock climbing and mountaineering
* Retiring old equipment and monitoring the safety of current equipment

**SKILLS & INTERESTS  ~~|~~**

**Languages** C · Java · C# · Matlab · Javascript · VHDL · Bash · HTML · CSS · PHP · SQL

**Software** Git · Vivado · Altium · Solidworks · Linux · Google Suite · Office Products

**Interests** Climbing · Backpacking · Fluent in Spanish · Kayaking · Backpacking · Biking · Swimming