Justin W. Olson

Mobile: 720-261-9855 **Email: Justin.Wayne.Olson@gmail.com**
Website: https://JustinWayneOlson.github.io **GitHub: www.GitHub.com/JustinWayneOlson**

EDUCATION

University of Colorado at Boulder **Fall 2013- Spring 2017**

- B.S. Computer Science
- Selected Coursework: Artificial Intelligence, Machine Learning, Robotics, Database and Information Systems, Scientific Visualization, Numerical Computation, Operating Systems

TECHNICAL SKILLS

- **Languages:** Python, C, C++, JavaScript, HTML, CSS, Bash, LaTeX, Java, Ruby
- **Frameworks:** Tornado, Django, MeteorJS, ReactJS, Rails, Node.js, AngularJS
- **Databases:** MySQL, PostgreSQL, MongoDB, RethinkDB
- **Environments:** Vim, IntellIJ, Eclipse
- **Version Control:** Git, Perforce, ClearCase
- **Operating Systems:** various Linux distributions, Mac OS, Windows
- **Technical Computing:** Matlab, Mathematica, Sage, Julia

EMPLOYMENT HISTORY

Seagate Technology - Software Engineering Intern **Summer 2016**

- Wrote bash scripts to perform static code analysis for their in-house scripting language
- Wrote a JSON parser (python) to parse machine-readable logs into a PostgreSQL database
- Designed and wrote a full stack web-application for displaying searching and analyzing the logs

University of Colorado Boulder - Research Assistant **Fall 2015 - Fall 2016**

- Responsible for gathering data from students related to their experiences with courses and professors
- Parsed, analyzed and presented the data gathered to help the student population voice their positive and negative opinions
- Full stack web development for a research project called EQUIP

EchoStar Corporation - Embedded Systems Software Engineering Intern **Summer 2015**

- Aided in the research and development of an efficient file-system for a Linux based DVR
- Wrote BASH scripts and C to mimic multi-channel recording and measured performance
- Mentored a high school robotics competition, instructing in the basics of physics, mechanics, and functional programming

University of Colorado Boulder - Computer Science Learning Assistant **Spring 2015 - Present**

- Responsible for guiding and educating students in a course of over 300 computer science students
- Tutored students on projects in Python, C, and C++, as well as coding standards, Linux, and various text editors and development environments

ACCOMPLISHMENTS

Eagle Scout **December 2010**

- Nearly a decade of gathering life skills, leadership experience, and project management
- Designed, fundraised, planned, and built a 10’x10’ permanent bus stop at Dinosaur Ridge in Morrison, CO

Project Published in Popular Science Magazine **July 2015**

- “Flappy Board” The foldable skateboard: http://www.popsci.com/skateboard-folds-half

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RELEVANT PROJECTS

Airport Traffic Analysis - https://github.com/JustinWayneOlson/Air-Traffic-Analysis **Fall 2016 - Spring 2017**

- Senior Project sponsored by Northrop Grumman
- Use open source data to visualize and analyze air traffic
- Team Lead: Responsible for communication, project planning, and execution

Equip - www.equip.ninja **Fall 2015 - Fall 2016**

- Developed a research focused web application for observing educational environments
- Built with Javascript, HTML, CSS, MongoDB, meteor.js, jQuery
- Full stack web development, user centered design

Personal Website - https://JustinWayneOlson.github.io **Fall 2016**

- Wrote a front end web application for my personal and professional needs
- Acts as a platform for learning new and interesting javascript libraries

Alexa-LetsCookFood - https://github.com/JustinWayneOlson/alexa-letsCookFood **Fall 2015 - Fall 2016**

- Designed, and built a kitchen assistant web application that works with Amazon Echo
- Wrote a REST API for communications between Echo, and the web server
- Worked with HTML, JavaScript, CSS, Amazon API, Spoonacular API

CUSCQ - (CU Student Course Questionnaire) **Fall 2015 - Spring 2015**

- Worked alongside a senior projects team developing a full stack web application
- Worked on UI/UX design, developed meaningful survey questions, designed database spec

RateMyBuffs - http://cufcq.com/ratemybuffs **Spring 2015**

- 2nd Place Hack CU annual hackathon project
- Built a chrome extension to display CU's course/instructor survey results next to classes during course enrollment
- Worked with JavaScript, HTML, CSS, basic web server and database interaction

Memory Oracle - https://github.com/daniel-noland/MemoryOracle **Spring 2015**

- Created a web based front-end for GDB to display current memory stack, source code, and a customizable interface
- Built with JavaScript, HTML, CSS, and Python using web sockets
- Required knowledge of GDB, C, C++ and memory architecture
- Designed and wrote the front end. Created a dynamic web page that would interact with web sockets to display source code, graphs, and process information, with a customizable user interface

Flappy Board - http://www.popsci.com/skateboard-folds-half **Spring 2014**

- Best in class freshman projects
- Designed and built a skateboard that could be folded in half when not being ridden
- Multi-disciplinary engineering group project
- Used basic Mechanics, statics, and dynamics to perform calculations and prove it could support the weight of a rider