Kwyn Alice Meagher

aka HarleyKwyn

harleykwyn.com | github.com/harleykwyn
linkedin.com/in/harleykwyn | kwyn.meagher@gmail.com
408.621.2997

Technical Skills

Expert : JavaScript, CoffeeScript, Git, Angular.js, Express.js, Node.js, CoreOS, Docker

Experienced : Python, Flask, scikit-learn, scikit-image, D3.js, Famo.us, jQuery, Backbone.js, Markdown, Bash

Basic : Hadoop, Mahout, Java, C++, Labview, MATLAB, awk

Relevant Experience

Visualizer Interpreter **2014**

- Engineered visualizations for instantaneous scope and variable based on an open source JavaScript interpreter
- Designed an intuitive and user friendly interface for a complex on-line debugging repl
- Re-factored prototype code to a modularized architecture in Angular to allow for continued development

Node.js - TCP/IP bridge server for Live Poker Gaming **2014**

- Built Node.js server, to handle real time gaming communication via JSON based client to a TCP/IP based server
- Implemented end points for Facebook Oauth and various payment systems i.e. PayPal, Venmo, Stripe

Semantic Similarity as a Service **2014**

- Architected and constructed RESTful API for to make custom search engines based on Semantic Similarity
- Solved problems with persistence and lazy loading of searches for large databases using CoreOS and Docker

20.48 (2048 Rebuilt in Famo.us) **2014**

- Built complex 3D animations for enriched user experience, leveraging the Famo.us framework
- Learned Famo.us and ported the 2048 JavaScript engine to the framework in one week with limited documentation

GalaxyZoo Kaggle Machine Learning Competition **2014**

- Primary distributed computing engineer with Hadoop, Mahout and Python
- Designed machine learning workflow in Python using scikit-learn and scikit-image and addressed memory usage issues for large data sets
- Placed 65th out of 210 competitors as of 03.02.2014 beating out university teams

University of California, Merced

Java Computer Science Tutor **2012 - 2013**

- Brought clarity and understanding of Java and computer science to classes of 100+ undergraduate students

Nano-materials Modeling Engineer **2010 - 2011**

- Designed and implemented algorithm to generate data for silica nano-springs from a bulk data text file using AWK

Student Computer Lab Technician **2008 - 2011**

- Managed and maintained 60 computers and trained users on basic operations in Windows, Mac or Linux operating systems

Terrestrial Drone Engineer **2008**

- Utilized arduino's servo interface successfully without documentation with Java interface

Other Experience

Mission Bit Technical Mentor **2014**

Mentored interns at Hack Reactor teaching JavaScript, Firebase and jQuery best practices

Physics and Materials Science Teaching Assistantship **2013**

Cultivated understanding of physics through real-world examples using wolfram-alpha

Center of Integrated Nano-mechanical Systems REU **2012**

Two-time recipient. UC Berkeley, and UC Merced. Developed and characterized carbon based nano-devices

Engineering Projects in Community Service **2009**

Constructed a working space elevator model, with a team of 17 engineers, for Castle Science and Technology Center

Laser Research **2009**

Collaborated with a colleague to create a prototype of an experimental fiberoptics-based pulse laser

Education

Software Engineering Hacker in Residence Program **Completed July 2014**

Hack Reactor's selective paid graduate program.

Software Engineering Hack Reactor **Completed April 2014**

M.S. Biological Engineering and Small-scale Technology University of California, Merced **Expected December 2014**

GPA: 3.98. BEST Summer Fellowship. COMSOL Finite Elemental Analysis.

B.S. Materials Science and Engineering University of California, Merced **Completed December 2012**

Java, C++, Statistics. Multiple academic award recipient.

Personal Interest

I have a high degree of self-awareness and enjoy hiking, meditation, Olympic lifting, nootropics, quantified self, clean eating, coffee, and grass-fed butter. I love disruptive technologies and businesses; I'm an early adopter of Coin and I have a Ripple wallet.