Kwyn Alice Meagher

aka HarleyKwyn

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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

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

- Built Node.js server to bridge HTML5, and iPhone client to communicate via JSON to TCP/IP server
- Using socket.io for speed and reliability per client specification
- Implemented end points for Facebook Oauth and various payment systems i.e. paypal, venmo, stripe

Semantic Similarity as a Service
2014

- Built in Python, Flask, Scikit-learn and Docker
- Architected and constructed RESTful API for Semantic Similarity
- Solved problems with persistence and lazy loading of searches for large corpuses

20.48 (Rebuilt 2048 in Famo.us)
2014

- Learned Famo.us in one week with limited documentation
- Ported the 2048 JavaScript engine into Famo.us in the same week
- Built 3D visualizations for enhanced user experience

Visualizer Interpreter
2014

- Re-factored prototype code to a modularized architecture in Angular
- Mastery of JavaScript required to build visualization of JavaScript interpreter internals
- Lead for site design and interface

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 Angular 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.