Kwyn Alice Meagher

aka HarleyKwyn

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Technical Skills

Expert : JavaScript, CoffeeScript, Git, Angular.js, Express.js, Node.js, Socket.io ,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

Full-Stack Software Engineer — Visualizer Interpreter   **2014**

- Engineered visualizations for instantaneous scope and variable values based on an open source JavaScript interpreter
- Designed an intuitive and user friendly interface through user testing to simplify a complex on-line debugging tool
- Integrated on-line text editor using Angular and Github API to load, submit, and edit code with gists to enhance user experience
- Re-factored prototype code to a modularized architecture in Angular to allow for continued development

Data Engineer, Machine Learning — Galaxy Quest   **2014**

- Designed machine learning work-flow in Python using scikit-learn and scikit-image and addressed memory usage issues
- Primary distributed computing engineer with Hadoop, Mahout and Python leveraging a super computer to find the optimal algorithm
- Achieved a final root mean squared error (RMSE) of 0.12310, coming in 120th place out of 329 teams

Node.js Engineer — Live Poker Gaming Server Contract   **2014**

- Built Node.js server, to handle real time gaming communication via JSON based client to a TCP/IP based server
- Interpreted code developed by previous engineers to design and integrate new node.js bridge server using socket.io
- Implemented end points for Facebook OAuth and various payment systems i.e. PayPal, Venmo, Stripe

Python API Engineer — Semantic Similarity as a Service

- Constructed RESTful API for making custom search engines based on Semantic Similarity as a tool for developers
- Solved problems with persistence and lazy loading of searches for large databases using CoreOS and Docker

Front-End Software Engineer — 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

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

Other Experience

Mission Bit Technical Mentor   **2014**

Mentored interns from local high schools at Hack Reactor teaching JavaScript, Firebase and jQuery best practices

Engineering Projects in Community Service   **2009**

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

Education

Software Engineering Hack Reactor   **Completed April 2014**

Hacker in Residence Program.

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

Relevant courses: 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.