Kwyn Alice Meagher

aka HarleyKwyn

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Technical Skills

Expert : JavaScript, Git, Angular.js, Hapi.js, Express.js, Node.js, CoreOS, Docker, jQuery, SASS, css, Gulp

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

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

Relevant Experience

Technical Machine - Web Engineer

2014-Present

- Built a storefront from scratch using Hapi.js, jQuery, jade, and Object Oriented CSS with Sass.
- Automated deployment with heroku-like capabilities using Ansible and git.
- Improved API and documentation for individually addressable RGB LEDs on Tessel.
- Collaborated on designing and implementing new CLI for Tessel 2 creating a better user experience.
- Used D3.js and Angular to construct data visualization and geo-clustering for market targeting.

Uber - Internal Tools Engineer

2014

- Integrated support tools into the existing Python/Postgres API to efficiently gather data.
- Built a user interface for support workers to seamlessly respond to requests.
- Ramped up to the point of effectiveness on 5 different codebases within the first month.

Contract - TCP/IP bridge server for Live Poker Gaming

- 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.

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

Projects

Full-Stack Software Engineer — Visualizer Interpreter

- 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

- 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

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)

- 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

Other Experience

Mission Bit Technical Mentor **2014**

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

Student Computer Lab Technician **2008 - 2011**

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

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

Education

Software Engineering Hack Reactor **Completed April 2014**

Hacker in Residence Program. Hack Reactor **Completed July 2014**

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.