Judy Long

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Experience

Developer I · Bluewolf, an IBM Company **2016 - 2017**
· Developed technical solutions for continuous innovation of client Salesforce organizations
· Worked in agile environment with TDD and pair-programming

Teaching Assistant · Wheaton College **2013 - 2014**
· Chosen to assist over 40 students with experimental set-ups and guidance in laboratory report write-ups for Modern Physics, Introductory Circuits, and Experimental Physics courses

Physics Research Assistant · Wheaton College **2012 - 2012**
· Operated lab equipment including dye lasers and oscilloscopes to investigate several solid state systems
· Performed visualization and analysis of over 50 sets of data

Chemistry Research Assistant · Wheaton College **2011 - 2012**
· Gathered over 15 sets of absorbance and fluorescence spectroscopy data to investigate the properties of Spiropyran

Skills

Languages: Python, Ruby, JavaScript, HTML5/CSS3, SQL
Frameworks/Libraries: scikit-learn, Pandas, Ruby on Rails, Backbone.js, jQuery
Other tools/Methodologies: Git, AWS, Salesforce, SVN, TDD, Agile

Education

App Academy **2015**
· Full-stack web development course emphasizing TDD, pair-programming, and best practices, acceptance rate < 3%.
Wheaton College magna cum laude, Phi Beta Kappa **2010 - 2014**
· BA Physics, Major GPA: 3.94, Overall GPA: 3.79
· Graduated at top of major, earned the prestigious H.M. Pastra-Landis Prize in Physics
· *Curriculum Highlights:* Scientific Computing, Quantum Mechanics, Electromagnetism, Statistical & Thermal Physics, Classical Mechanics, Partial Differential Equations, Linear Algebra, Cryptography, Logic, Optics, Remote Sensing, Oceanography & Meteorology

Projects

Glass Classification (scikit-learn, Pandas, Python) Github
Data Project that tackles supervised learning task of classifying glass
· Utilizes interactive Jupyter notebook for live code, inline data visualization, and analysis
· Leverages Pandas and Scikit-learn for data munging, model building, model selection, and model evaluation
· Explores methods to handle imbalanced classes such as random oversampling and SMOTE

Villain-E (Ruby on Rails, Backbone.js, jQuery) Live | Github
Villain-themed crowdfunding site inspired by Kickstarter
· Responsive single-page Backbone app with RESTful Rails API on the backend
· Extends Backbone Views to create rich composite layouts
· Leverages event listeners to dynamically alter DOM content in real-time
· Allows login with Facebook via OmniAuth for seamless UX

Pikachu Run (JavaScript) Live | Github
Browser version of classic arcade game Snake with Pokemon theme
· Implements prototypal inheritance to maintain DRY code
· Uses jQuery to efficiently update the DOM by only altering DOM element classes

ActiveRecord Lite (Ruby) Github
An Object Relational Mapping (ORM) inspired by the functionality of ActiveRecord
· Utilizes modules to imbue the SQL model class with additional functionality for searching and associations
· Leverages metaprogramming to dynamically generate complex SQL queries