Hana Um

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Education

Columbia University - Barnard College Sep 2009 - May 2013
B.A. Biological Sciences - Biomedical Engineering GPA 3.3

Coding Dojo June 2015 - September 2015
3.5 months intensive coding bootcamp teaching LAMP stack, MEAN stack, and Ruby on Rails. Obtained the highest level of achievement as a double blackbelt.

Work Experience

Kryptnostic, Inc: Front-end Engineer Jan 2016 - Jun 2016

- Built the entire company website by implementing design and creating a responsive and functional client-facing site. https://www.kryptnostic.com/
- Implemented many of the new features in Kodex, Kryptnostic's secure communication platform, such as administrator panel controls, user listing, archived / muted chat channels, channel notifications, front-end support for paging, email verification, pasting browser and file system images, and multiple performance optimizations. https://kodex.im/app/
- Took charge of UI/UX design implementation of Kodex which included rewriting the login and registration pages, user settings options, and all of the email templates.
- Spearheaded the adaptation of automated testing in Kodex. Code coverage improved from 0 to 60% as a result of this effort.
- Improved company codebase by pushing high quality tested code and providing thorough code reviews. Deployed and released code to staging and production environments.
- Promptly responded to customer requests and concerns whether it be building a new feature within a week or fixing a bug. Used the JIRA ticketing system to file and keep track of tickets on the front-end.
- Technologies used: HTML5, CSS3, LESS, JavaScript, AngularJS, Gulp, Karma, Jasmine, Webpack.

Biomedical Engineering Department, Columbia University: Lab Technician Jun 2011 - Oct 2014

- Developed a MATLAB program to quantify the scaled area of cells.
- Independently conducted research on fibroblast migration.
- Performed data analysis and statistics using SPSS.

Genetics Department, Columbia University: Lab Intern Jun 2010 - Sep 2011

- Conducted research on gene manipulation of yeast cells.
- Independently discovered a significant gene (cwf14Δ) linked to a chromatin mutation.
- Led weekly presentations for my group about research progress in front of the epigenetics department.

Skills

Languages: JavaScript, Python, Ruby, PHP
Frameworks/Libraries: Node.js, AngularJS, Socket.IO, Express.js, Mongoose.js, CodeIgniter, Rails, jQuery
Style: HTML/HTML5, CSS/CSS3, Bootstrap, Materialize
Databases: MySQL, PostgreSQL, MongoDB
Testing Framework: Karma, Jasmine
Build System: Gulp, Webpack
Version Control: Git

Awards

JFEW Foundation Science Scholarship Jun 2010
Received a science scholarship awarded to the top 20 students in the entire Barnard Biology Department.

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Projects

Choose To Go! choosetogo.herokuapp.com **Individual Project (September 2015)**

A travel application coded in Ruby on Rails utilizing Google Maps, Google Distance Matrix, and Yelp API's.

PathfinderEDU pathfinderedu.herokuapp.com **HackingEDU Hackathon Submission (October 2015)**

An education planning app developed in Javascript using the MEAN stack.

- Designed front-end UI/UX (Bootstrap).
- Built controllers and factories (AngularJS).
- Implemented Chegg API (Node.js).

Pledge-A-Thon pledgeathon.herokuapp.com **MasterCard Masters of Code Hackathon (July 2015)**

A charity web application coded in JavaScript using the MEAN stack.

- Designed front-end UI/UX (Bootstrap).
- Implemented client-side experience (AngularJS)
- Integrated MasterCard API for payment processing.

HealthAMP healthamp.herokuapp.com **Class Project (August 2015)**

A health web application written in JavaScript using the MEAN stack.

- Designed database schema and coded back-end implementation (Express.js, Node.js, MongoDB).
- Built controllers and factories for the entire site (AngularJS).