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.

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
Version Control: Git

Projects

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

Work Experience

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.

Awards

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