ROBERT MATYCH

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Education

Aug 2014–May 2018

Bachelor of Science in Computer Science and Engineering
- University of California, Berkeley
- Regents' and Chancellor's Scholar (top 2% of Berkeley's admitted class)
- GPA: 3.46

Experience

Indeed

May 2017-Aug 2017

Full Stack Software Engineer Intern
- Worked closely with a team of 5 engineers and a product manager on Indeed Prime
- Implemented a new user experience in an existing React web app for Indeed Prime job seekers to indicate interest in employers
- Seamlessly integrated new API endpoints into Indeed's service oriented architecture using Java Spring
- Overhauled UI for employers to send in-app emails to job seekers using React / Redux, garnering more than 1000 usages in the first week of release

Jan 2016-May 2017

UC Berkeley Computer Science Mentors

Data Structures Associate Mentor
- Independently taught two small sections adjunct to UC Berkeley's undergraduate data structures course
- Hosted small, interactive material review sessions for exam preparation
- Maintained overall performance rating of 4.8/5

Jan 2016-June 2016

Regatta Tropicals

Site Maintenance Assistant
- Improved and added content to the company's website using HTML5, CSS, and PHP
- Created new graphics for the website using Adobe Photoshop and Illustrator

Projects

Dec 2016

Handwritten Digit Classifier (`Python`)
- Implemented both the Perceptron algorithm and Stochastic Gradient Descent
- Trained a neural network to recognize handwritten digits up to 94% accuracy

Nov 2015-Dec 2015

Gitlet - A lightweight local version control system (`Java`)
- Built a simple version of Git capable of handling branch merging and file conflicts
- Utilized SHA-1 encryption in conjunction with hash tables to prevent file collision and optimize runtime

Oct 2015-Nov 2015

Logic and AI for Strategy Board Game (`Java`)
- Implemented the game logic for a text-based version of Lines of Action
- Utilized the mini-max algorithm and alpha-beta pruning to create a computer player that adhered to a defensive strategy

Sep 2015-Oct 2015

Relational Database Management System (`Java`)
- Built a database system that uses a restricted dialect of SQL

Languages and Technologies

Programming	Web	Software
• Javascript / ES2015	• React	• Git
• Python	• Spring	• Adobe Photoshop / Illustrator
• Java	• Webpack	• Windows
• C	• HTML5	• Unix / Linux
• Matlab	• CSS / Sass	• OSX