MAX JUCHHEIM
Software Developer

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Skills

Languages
Python, Ruby, JavaScript (ES6), R, HTML5, CSS

Databases
SQL, PostgreSQL, MongoDB

Frameworks and Libraries
Django, Ruby on Rails, jQuery, Mongoose, Jupyter, Bootstrap, Handlebars, Ember.js, Node.js, Express, AJAX, SCSS/SASS, NumPy

Other
Intermediate proficiency in Japanese language

Tools and Technologies
Text editors (Sublime Text, Atom), JSON, Command Line Interface, version control (Git/Github), Heroku, Github Pages, AWS S3, Operating Systems (Windows, Ubuntu 16.04, MacOS), MSOffice Suite, Trello, Atlassian Jira

Selected Web Development Projects

CLIMBER CRUD – The Climbing Route User Database

- Created application to allow rock climbing hobbyists to track locations and climbing routes they have attempted.
- Implemented both an HTML/JavaScript front-end client and Ruby on Rails-based back-end allowing basic Create-Read-Update-Destroy actions on a PostgreSQL database.

FOODHUBGRUBLR – Foodler/Grubhub-esque food ordering/delivery service

- Used Ember.js framework to implement both restaurant owner-facing menu listing and user-facing ordering functionality.
- Integrated third-party APIs to allow order payment processing (Stripe) and restaurant location display (Google maps).

DND PIMP – A Party Inventory Management Platform for use with the Dungeons & Dragons tabletop roleplaying game system

- Leveraged Python and Django to make a self-contained client to track multiple resource relationships.

JUMP AHEAD – A professional website templating and blogging platform

- Worked with a team of three other coders to build a fully-functional content management system web application using Node.js, Express, MongoDB, and Mongoose.
- Followed agile practices and performed SCRUM ceremonies including daily standup meetings and sprint retrospectives.

TIC-TAC-TOE – A jQuery-powered front-end client for the classic children's game

Work Experience

WEB DEVELOPER IN TRAINING – General Assembly Boston, Jan 2018 – April 2018

- Completed 12 week, 600+ hour intensive web development training course
- Constructed 4 full-stack single page web applications, each in a span of less than 5 days

SCIENTIST I, II, & SENIOR SCIENTIST, PRODUCT LEAD – Addgene, Inc., July 2012 – Jan 2018

- Worked full time as a molecular biologist performing DNA sequence analysis and vector quality control.
- Proactively studied the Python language in order to interact with and improve the company's Python/Django-based laboratory information management system (LIMS).
- Wrote code comprising more than twenty individual pull requests that were successfully deployed in the LIMS codebase

Education

MS (PHD-ABD), BIOLOGICAL AND BIOMEDICAL SCIENCES - Harvard Medical School, Division of Medical Sciences

- Studied MAP kinase signaling in colorectal cancer in transgenic mouse models and human colorectal cancer cell lines.

BS, BIOLOGY, MINORS IN CHEMISTRY AND BIOMEDICAL ENGINEERING - Massachusetts Institute of Technology

- Participated in part-time undergraduate research program in yeast genetics studying protein folding, sorting, and trafficking

Additionally, attained verified certificate of completion of the following courses on the edX.org online learning platform:

Introduction to Computer Science and Programming Using Python
Introduction to Computational Thinking and Data Science
The Beauty and Joy of Computing – AP® CS Principles Part 1

Introduction to Python for Data Science
Statistics and R
How to Code: Systematic Program Design – Part 1