Emily Zhang

mlyzhng.me

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EDUCATION

University of Berkeley, California - *B.A. Applied Mathematics 2018 (expected), minor in Computer Science*

SKILLS

Elixir, Python, Java, Javascript (Node.js), Ruby, HTML/CSS, SQL/MySQL, Photoshop, Illustrator, Git, C, MIPS, Logstash, ElasticSearch, API Integration

EXPERIENCE

Full Stack SWE Intern, Lob *(Summer 2017 - Present):*

Treated as a full-time engineer on team. Implemented bug fixes, made (and merged) pull requests, participated in sprint planning, and wrote code reviews. Worked with Elixir, ElasticSearch, Logstash, PostgreSQL, Node.js, and Ruby on Rails. Shipped and built a customer facing API endpoint (listed in projects section).

QA Engineer, Berkeley Residential Computing *(Summer 2016 - Spring 2017):*

Manual click testing. Integrated with pre-existing JIRA and TestUnit systems. Supporting WebTMA migration with configuration management and database testing. Communicating with clients and contractors to analyze business requirements and use cases for new projects.

PROJECTS

Zip Lookup API *(Elixir, Node.js, ElasticSearch, Logstash, PostgreSQL)*

Created a new internal API endpoint for Lob that integrated with an existing external API endpoint. When a zip code or a city/state pair are given, returns a list of cities/states or zip codes that span the input zip code or city/state pair respectively.

todo *(Elm, HTML, Gulp)*

Small personal project to learn Elm. A simple webapp with local persistence that allows a user to create, edit, and delete a list of tasks. A link to the demo is provided on my personal website.

hungrytext *(Python Flask, Heroku, Twilio, Google Maps API, Yelp API)*

Personal project. A Heroku app that replies to texts containing a location with directions to the nearest In-n-Out.

COOL Compiler *(Java)*

A semester-long school project that involved writing a lexer, parser, semantic analyzer, and code generator to compile COOL (an object-oriented language developed for the classroom) into MIPS.

shell.c *(C)*

School project. Implemented my own shell with program execution, signal handling, input/output redirection, and terminal control capabilities running on top of PintOS.

RELEVANT COURSES

Data Structures, Discrete Math and Probability, Structure and Interpretation of Computer Programs, Algorithms, Linear Algebra, Machine Structures, Intro to Database Systems, Intro to Artificial Intelligence, Programming Languages and Compilers, Operating Systems and Systems Programming