Emily Shoji

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Education

Bachelor of Science, Computer Science — Loyola Marymount University
Minor: Pure Mathematics — 1 LMU Drive, Los Angeles, CA 90045
August 2015 – May 2019

Relevant Courses

Data Structures & Algorithms	Computer Networks	Theory of Computation
Interaction Design	Language Translation & Implementation	Linear Algebra
Programming Languages	Artificial Intelligence	Multivariable Calculus
Computer Graphics		Complex Analysis

Technical Skills

Languages: Python, Java, JavaScript/jQuery, HTML, CSS, C, C++, JSON, React, SQL
Tools: BootStrap, Git/GitHub, Bash, Jasmine, NodeJS, OpenGL | **Operating Systems**: macOS, Linux
Computing: Object Oriented Programming, Data Structures, Algorithms, UX/UI Design, Logic Design, Graphics

Projects

- **MobieDock:** Website using JavaScript, React, HTML & CSS for LMU student start-up, MobieDock, an eDocking and charging solution for Los Angeles' micromobility market. The start-up is a collaboration between LMU's Engineering, CS & Entrepreneurship departments, an
- **Compundium2:** An updated version of a past project using React, Python, Google User API, Google Datastore & Google App Engine. Users can log in with their Google account and post puns or upvote & downvote other posts as well as view their pun scores on a profile page.
- **LionHouse:** A forum website hosted by Google App Engine in Python, HTML, CSS, and Javascript, utilizing the Google Cloud Datastore database and Google Users API.
- **PokéSearch:** Web app using server-side development and DOM manipulation with modern JavaScript/jQuery, HTML/ CSS & the PokéAPI to allow users to search for Pokémon. tested with Jasmine across different browsers
- **Nebula:** Helped to develop a "spatially scoped" programming language intended for game development environments to be used in a virtual reality setting.
- **Maze Maker:** Web app using server-side development in jQuery/JavaScript, HTML, and CSS simulating balls that respond to gravity and rotation of a mobile device. User can create/move boxes with finger swipes that balls ricochet from.

Related Leadership & Technology Positions

Loyola Marymount University

Google CSSI Extension Teaching Assistant — July 2016 - August 2018
- Aid 18 student participants with coding and building their software projects using Google Cloud Products, JavaScript, Python, HTML & CSS over the course of 3 weeks.
- Help with program and meal planning and setup for the day-to-day activities
- Ensure students understanding of each topic with one-on-one tutoring as needed

Computer Science Teaching Assistant — August 2017 – May 2019
- Assist and tutor 5-10 students per shift with computer science-related work including Algorithms, Data Structures, Interaction Design, Computer Graphics and more.
- Explain key concepts to assure students' understanding of varying computer science topics

Involvement

Member, Association for Computing Machinery — 2015 – 2019
Rains Research Assistant, LMU Mathematics Department — 2017 – 2018