Emily Shoji

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Education

Bachelor of Science, Computer Science   Los Angeles, CA
Loyola Marymount University   2015 – 2019
Minor: Pure Mathematics

Relevant Courses

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

Technical Skills

- <u>Languages:</u> Python, Java, JavaScript/jQuery, HTML, CSS, C, C++, JSON, React, SQL
- <u>Tools:</u> Google App Engine, Bootstrap, Git/GitHub, Bash, Jasmine, NodeJS, OpenGL, PostgreSQL
- <u>Computing:</u> Object Oriented Programming, Data Structures, Algorithms, UX/UI Design, Logic Design, Graphics

Projects

- <u>MobieDock:</u> 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.
- <u>Compundium2:</u> 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.
- <u>LionHouse:</u> A forum website hosted by Google App Engine in Python, HTML, CSS, and Javascript, utilizing the Google Cloud Datastore database and Google Users API.
- <u>PokéSearch:</u> Web app using server-side development & DOM manipulation with JavaScript/jQuery, HTML/ CSS & the PokéAPI to allow users to search for Pokémon. tested with Jasmine across different browsers
- <u>Nebula:</u> Helped to develop a "spatially scoped" programming language intended for game development environments to be used in a virtual reality setting.
- <u>Maze Maker:</u> 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.

Employment & Leadership

The Coding School   *Remote*
  Python Instructor & Curriculum Developer   September 2019 – Present
  - Meet via Google Hangout/Skype on-on-one for weekly lessons
  - Assist Students in learning fundamental coding concepts such as OOP, Data Structures & Syntax
  - Build lessons and projects for future curriculums covering graph theory & natural language processing

Loyola Marymount University   *Los Angeles, CA*
  Google CSSI Extension Teaching Assistant   July 2017 - 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 coursework including Algorithms, Data Structures, etc.
  - Explain key concepts to assure students' understanding of varying computer science topics