

# Emily Shoji

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<https://github.com/itsEmShoji>

## Education

### Bachelor of Science, Computer Science

Minor: Pure Mathematics

August 2015 – May 2019

Loyola Marymount University

1 LMU Drive, Los Angeles, CA 90045

## 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

## Technical Skills

**Languages:** Python, Java, JavaScript/jQuery, HTML, CSS, C, C++, JSON, React, SQL

**Tools:** Google App Engine, Bootstrap, Git/GitHub, Bash, Jasmine, NodeJS, OpenGL, PostgreSQL

**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.
- **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 & DOM manipulation with 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

### The Coding School

#### CodeConnects Python Instructor

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

### 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 coursework including Algorithms, Data Structures, etc.
- Explain key concepts to assure students' understanding of varying computer science topics