

Emily Shoji

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Education

Loyola Marymount University

Bachelors of Science, Computer Science

Los Angeles, CA

Expected Graduation: May 2019

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|-------------------|---------------------------------------|-------------------------|---------------------------------|
| <u>Courses</u> | Theory of Computer Science | Databases | Intro to Methods of Proof |
| Data Structures | Computer Systems Organization | Artificial Intelligence | Ordinary Differential Equations |
| Algorithms | Programming Languages | Discrete Methods | Multivariable Calculus |
| Operating Systems | Language Translation & Implementation | Linear Algebra | |

Loyola Marymount University

Computer Science Teaching Assistant

Los Angeles, CA

August 2018 - Present

Experience & Employment

- Assist computer science students with problems and questions related to projects, homework
- Be a resource for students in the department in and out of the classroom
- Assist the Lab Manager with tasks such as organization of events, lab maintenance, etc.

Google Computer Science Summer Institute Extension at LMU

Los Angeles, CA

Teaching Assistant

July – August 2018

- Aid student participants in their web development projects using Google App Engine in Python 2.7, CSS, HTML
- Organize, order, pickup and set up meals for students each day
- Help instructors with program planning and setup each day
- Facilitate student adjustment to the university and to their residence halls

Loyola Marymount University

Los Angeles, CA

Rains Research Assistant

November 2017 – May 2018

- Assist in compiling data about each class at the university containing statistics in course material
- Prepare, maintain and update website materials using WordPress technologies
- Interact with faculty across campus to request materials or coordinate data collection

Loyola Marymount University Children's Center

Los Angeles, CA

Caregiver & Teacher's Assistant

September 2016 – December 2017

- Respect children and encourage them to be a protagonist in their own environment
- Make effort to create trusting relationships with the 12 children as well as with others in different classrooms
- Help teachers with children's daily routines (feeding, diaper changing etc.) at a National Association for the Education of Young Children (NAEYC) accredited center
- Maintain a healthy and safe environment for children

Notable Projects

- **Nebula** – Currently in production, a “special programming” language intended for game development environments to be used in a virtual reality setting
- **LionHouse** – Created using Python, HTML, CSS, and hosted on the Google Cloud with Google App Engine, A forum type site for users to converse with each other. Also incorporates
- **Pokémon Searcher** – Using the PokeAPI, Bootstrap and jQuery can search for Pokémon by their ID or name, list all Pokémon of a type or show the first 20 Pokémon.
- **Maze Creator Game** – Implements direct-manipulation and multi-touch capabilities on smart phones, Users can drag to draw, move and delete maze walls, then tilt the phone's accelerometer to move the ball around the screen.

Additional Skills

- **Fluent** in Java, JavaScript, jQuery, Python, HTML, CSS, C++
- **Experience** with C, Elm, Bootstrap, Node.js, Google App Engine Technologies, JSON, OpenGL
- **Beginner** in Amazon Web Service Technologies
- Familiar with Linux, MacOS

Extracurricular Activities

Association for Computing Machinery (ACM) at LMU
Member

Los Angeles, CA
2015 - Present