

Lori J. Seo

Los Angeles, CA

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EDUCATION

Oregon State University

Bachelor of Science in Computer Science

- **GPA:** 3.9/4.0

Corvallis, OR

Expected Graduation: June 2024

California State University Northridge

Bachelor of Arts in Liberal Studies

Single Subject Credential Program (Mathematics)

Northridge, CA

August 2011 - June 2016

August 2016 - June 2018

WORK EXPERIENCE

Los Angeles Unified School District

Mathematics Teacher

August 2018 – January 2022

- Coordinated a small team of teachers to identify effective educational practices and implementations
- Pioneered Data Science curriculum using **R** in **Rstudio** by introducing data analysis through statistical models
- Established consistent communication between parents and faculty members to improve student performance
- Spearheaded AP Calculus course leading to 12% increase in students' enrollment in advanced mathematics
- Mentored student teachers by providing assistance with resources and collaborated on lesson plans

PROJECTS

SANI-HANDS | HTML, CSS, JavaScript, Bootstrap

- Launched a web application addressing dangers of mixing cleaning products with **HTML/CSS/JavaScript**
- Designed educational cards categorized by cleaning ingredients, products, and effects to increase engagement
- Utilized client-side storage and **CRUD** functionality allowing users to personalize cleaning product cards
- Automated an interactive quiz feature and search engine by parsing and displaying data from **JSON** database

STREAMmee | HTML, CSS, JavaScript, Express.js, Node.js, jQuery

- Constructed a movie streaming application enabling users to filter by genre, streaming service, and location
- Deployed **RESTful API** to streamline a server-side data retrieval using **Express.js** and **Node.js**
- Implemented **Geolocation API** into search filters allowing users to experience and control relevant content
- Refined data request performance by configuring middleware to compress **API** data and reduce payload size
- Integrated **jQuery UI** to create animated visuals and dynamic GUI widgets to enhance user experience

Ludo | Python

- Constructed a 2-4 player board game using decision-making algorithm to automate a gameplay in **Python**
- Developed test datasets by testing edge cases and handling user defined exceptions
- Streamlined program by applying inheritance and encapsulation OOP principles

Fruitbox | React, Express.js, Node.js, MongoDB

- Built a fresh produce ecommerce website utilizing selection algorithm for package options with **MERN** stack
- Authorized and authenticated users by generating **JWT** to validate secure access between network endpoints
- Employed backend server to create, delete, and update products using **MongoDB/Mongoose**
- Enhanced application performance by implementing **React** virtual DOM and client-side routing

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML, CSS, Assembly, R, C/C++

Tools/Databases: Git, GitHub, VS Code, Visual Studio, MongoDB, JWT

Frameworks/Libraries: Node.js, Express.js, jQuery, Bootstrap, React, Mongoose