Sharon Liang

415-964-7227 | sliang19@calpoly.edu | San Francisco, CA

EDUCATION

California Polytechnic State University   San Luis Obispo, CA
Bachelor of Science in Computer Science - 3.97 GPA   *Sep. 2022 – Present*

Selected Coursework

Data Structures, Object Oriented Programming(OOP) + Design, Systems Programming, Algorithms, Discrete Structures, Intro to Databases, Intro to Software Engineering

INVOLVEMENT

Computer Science + AI Club   May 2023- Present
California Polytechnic State University, San Luis Obsipo

Webmaster   *May 2024 - Present*
- Developing an interactive website to enhance member engagement, focusing on the **merch portal** to streamline merchandise orders.
- Updating and maintaining the website based on the club's evolving needs, ensuring alignment with current initiatives and events.

Club Officer   *May 2023 - May 2024*
- Collaborated with fellow officers to organize workshops and events, enhancing community engagement.

Machine Learning Undergraduate Student Researcher   Jul 2023 – Oct 2023
California Polytechnic State University, San Luis Obispo
- Conducted a literature review on AI/ML biases in policing, healthcare, and finance, reviewing 15 studies to co-develop a DEI framework.
- Explored Data Augmentation, GANs, and Reinforcement learning solutions to improve data quality and model performance.
- Contributed to a forthcoming ASSE conference paper on AI bias, identifying best practices for bias reduction.

PROJECTS

CSAI Merch Portal | *Sveltekit, Cloud Firestore, Netlify*   Jul 2024 - present
- Developing an e-commerce style portal to display club merchandise and simplify the ordering process.
- Designing an intuitive checkout system to enhance user experience and drive sales.
- Storing product data in CloudFirestore, retrieving and rendering it dynamically on the website.

JukeBox'd | *React, MongoDB, Express, Node.js, Figma, Microsoft Azure*   Mar 2024 - Jun 2024
- Developed a music review app using the MERN stack, inspired by Letterbox.
- Integrated the Spotify API to fetch and store data for 2000+ songs and albums in MongoDB.
- Implemented RESTful APIs with Node.js and Express.
- Collaborated using Git for version control and Agile methodologies with bi-weekly sprints.
- Implemented CI/CD with Microsoft Azure to ensure deployment efficiency and improve team productivity.

World of Lucky Charms | *Java, Piskel*   Apr 2023 - Jun 2023
- Refactored a simulation program from a procedural design to an object-oriented architecture.
- Refined code architecture using abstract parent classes and interfaces, effectively reducing duplication and enhancing cohesion, flexibility, and organization.
- Implemented A* pathfinding and Dijkstra's algorithm, enhancing game logic and character movement.
- Enhanced simulation interactivity by incorporating new animated entities with diverse activities.

TECHNICAL SKILLS

Languages: Python, Java, C, HTML/CSS, SQL
Frameworks: React, Node.js, Sveltekit, Express
Developer Tools: Git, VS Code, PyCharm, IntelliJ, Eclipse, Jupyter Notebook, Google Colab