Christofer Sanrow

Education

University of California, Los Angeles (UCLA) Sep 2023 – Jun 2027
BS Computer Science, Minor in Digital Humanities (GPA: 3.8) *Los Angeles, CA*

- Courses: DSA, OOP, Computer Organization, Discrete Math, Software Construction, Web Dev, Lin Alg

Experience

USAD "History of Computing" Instructor Oct 2023 – Feb 2024
Providence High School

- Contracted to teach curricula of early info processing, general purpose computers, microprocessors, etc.
- Created lesson plans, lecture materials and practice quizzes preparing 20 students for nation-wide exam.

Front-end Engineer / UX Designer Sep 2022 – Nov 2022
AI Camp Incubator: AI on Thumbs *GitHub*

- Re-engineered education app for ML with CI/CD, pull requests, code reviews, and user/unit testing.
- Established brand color palette and improved accessibility with streamlined interface through **Figma**.
- Implemented novel designs and a quiz system with **React Native**, **Expo** and **Android Studio**.

Freelance Web Developer Jun 2024 - Present
UCLA Organizations (AIA and DAW)

- Reinstated domain/hosting and redesigned Indonesian-American organization's website using **Webflow**.
- Managed hosting, Github repo, and engineered electronic music organization's page with HTML, JS, CSS.

Projects

SEAing Queer | GitHub | Webpage | *HTML, JS, CSS, MapLibreGL*

- Engineered web application sharing on-campus experiences of SE Asian LGBTQ+ UCLA students.
- Utilized **MapLibreGL** and **MapTiler** to geospatially present surveyed data on an interactive map.
- Cleaned and interpreted survey data through **Google Scripts automation** (to convert locations to latitude/longitude data and zip codes to cities) and used **PapaParse** to parse **JSON** data.

jAIce: Empathetic AI Chatbot | GitHub | *Python*

- Led back-end development on team of 5 for a chatbot, producing empathetic responses to users.
- Cleaned dataset of ˜25000 emotional conversations with **Pandas** and pre-processed with **NLTK**.
- Fine-tuned 124M version of GPT-2 using data with 10000 steps with **aitextgen** and **Google Colab**.
- Connected back-end model with web application using **Flask** framework and deployed using **Docker**.

UCLA–Westwood Tour Generator | GitHub | *C++*

- Engineered tour generator for UCLA area based on desired stops with relevant commentary/directions.
- Leveraged hash-map to access set of geo-points, connections, and points of interest in O(1) time.
- Implemented A* algorithm for path-finding, reducing compute time and producing 50% shorter routes.

Technical Skills

Languages: C++, C#, Java, Python, JavaScript, HTML, CSS, React Native, ReactJS, Bash, MATLAB
Technologies: NodeJS, Pandas, Scikit-learn, Pytorch, Flask, Git, Unity, Expo, Android Studio, MapLibreGL