Zhaoyang Lu

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Objective

To obtain a software developing engineer/ UI/UX designer position

EDUCATION

University of California Irvine — Bachelor of Science
Graduate in Winter 2024   Major: Informatics: Human-Computer Interaction   GPA: 3.329

Functional Skills: C++, **Python**, **Java**, HTML, CSS, TypeScript, **JavaScript**, **Git**, **Figma**, **AWS**, **MongoDB**, **Dart**
Libraries: Flask, Tkinter, BeautifulSoup, Matplotlib, Seaborn, Pandas; Javax, **Junit**, Mockito, Ionic, **Angular**, Jquery, bootstrap, **react**, next.js, tailwindCSS, **Flutter**, GitPage, GitAction

Conceptual Skills: Data Structure and Algorithm, User experience Research, Web design, Usability Research, UI/UX design, User-centered design; Agile methodology

Experience

Trade AI (Startup in stealth mode): Software Developer & UI/UX Designer   July 2023 — Present
- Developing Python scripting for Ai training data
- Designing and implementing Webpage
- Refining the business plan's aesthetic for professionalism.

Volunteering:

Canoeing Direction App - a canoeing direction app designed for New Port Beach Canoeing Team   July 2023 — Present
- Co-developing a Flutter-based mobile app to aid canoeing team navigation.
- Implementing map interface with OpenStreetMap API for precise geolocation.
- Designing front-end architecture focused on usability and team performance.
- Collaborating with backend team for smooth feature integration.

PROJECTS:

Preloved - a second-hand product e-commerce app based on community sections.
                                                          March — June 2023
- Implemented a responsive **Ionic-Angular** web app with **Figma-designed UI** and interactive **prototypes**.
- Utilized Back4App for backend management and collaborated on **API integrations**.
- Conducted testing, incorporated user feedback, and documented processes for future maintenance.

Puerta Abierta - a financial literacy education website

                                                          March — June 2023
- Built and deployed a responsive **Next.js/React** website, leveraging Tailwind CSS and Material UI for rapid, user-friendly design.
- Optimized performance through team debugging, used Git for code management, and improved UI based on **user feedback**.
- Ensured seamless communication with stakeholders throughout the development lifecycle.

Custom Search Engine   March 2023
- Built a high-performance search engine for indexed websites, delivering results under 100ms.

- Implemented a user-friendly GUI on a local Flask server.
- Engineered to handle high data volume effectively.

Weather Data Visualization   November 2022
- Visualized 2017 U.S. daily weather data using Python, Pandas, and Matplotlib.
- Analyzed comfort for summer/winter holidays and state-wise rainfall/snowfall patterns.
- Investigated significant temperature changes in Alaska.

Distributed Social Terminal Application   March 2022
- Developed a Python-based terminal application with a Tkinter GUI.
- Integrated LastFM and OpenWeather APIs for music and weather data respectively.
- Enabled user account creation and local data storage.