

# Anh Mac

full stack developer & avid UX/UI designer

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## EXPERIENCE

### Software Engineer — Google

DECEMBER 2023 – JANUARY 2024 | Javascript | Creative AIXI

- Started work on implementing updated frontend UI mocks for an image editor which calls various Google-internal genAI ML models as the backends to re-imagine the image editing process with AI help in **Javascript**.
- The role was eliminated with the entire AIXI team being affected by the Google layoffs on January 10, 2024.**

### Software Engineer, Site Reliability — Google

OCTOBER 2022 – CURRENT | Python, Golang | Data Indexing Solutions SRE

- Made code optimization changes across **Go** microservices in the Indexing pipeline, which improved 99pct latency RPC calls by 75%, reducing from 20 seconds to ~5 seconds per call.
- Reconfigured 32 microservices and found aggregated savings of 305 GiB in RAM usage, and 145 GCU (Google Compute Unit) across 110 jobs.

### Software Development Engineer Intern — Amazon

JUNE 2021 – NOVEMBER 2021 | Java, TypeScript, React Native

- Created a reusable “Keep shopping for” frontend **TypeScript** template to be displayed on Homepage, Thank You Page, and Your Orders on the Amazon app.
- Implemented endpoints that calls an internal ML framework in **Java** to generate personalized Recommendations content to render the frontend template.
- Conducted an **A/B experiment** with the new feature which returned an annualized increase of \$131MM Ordered Products Sales, \$20MM GCCP, and 3.7MM paid units across 19 different marketplaces.

### Project Lead/Frontend Developer — Saru Recycling

JULY 2020 – SEPTEMBER 2020 | JavaScript, React, React Native | Figma

- Led team of 4 developers in building a **MERN stack** web app and iOS/Android app as contract work for Saru Recycling, a student-founded startup @ UCR.
- Designed UI mocks for the firm web application to manage bin telemetry.
- Developed a cross-platform **React Native** mobile app for the client to interact with smart recycling bins when making transactions and donations.

### Software Engineer Intern — Theta Tau National Office

JUNE 2020 – AUGUST 2020 | Python, Django

- Created dashboards that display membership statistics, including academic composition, demographics, and participation activity of chapters nationwide using **Plotly Dash**, **PostgreSQL**, and **Django**.

## EDUCATION

### University of California, Los Angeles

B.S Computer Science, Digital Humanities concentration

- 3.59 GPA | 3x Dean’s Honors List, UCLA Achievement Scholarship, GHC Scholarship
- Activities & Societies: DevX, Theta Tau, Creative Labs
- Relevant Coursework: Object-Oriented Programming, Computer Organization, Operating Sys, Logic Design, Algorithms, Computer Graphics, ML, AI, Database

## PROJECTS

### Facial Recognition | Python Machine Learning

Colab Notebook

- Implemented a model using **PCA**, **k-means/k-medoids clustering** to perform facial recognition on a dataset of 1867 images of 19 different people.

### Royce Hall Model | JavaScript Developer/3D Modeling Artist

Demo | Github source code

- Implemented an interactive web weather simulator & 3D model using **Javascript tiny-graphics** library.
- Designed, 3D modeled all objects and textures using **Blender**.

### Twain | JavaScript Full Stack Developer

<https://github.com/ucladevx/twain>

- Refined a smart scheduling Chrome extension in **React** that helps users optimize their to-do list by planning tasks in their Google Calendar.
- Implemented endpoints in the REST API using **Node.js**, **Express.js**, and **PostgreSQL** for edit feature.

### FLUX (Flipped UX) | React, Figma UX/UI Designer

Project Showcase

- Spearheaded the design process of a social media **React** web app that showcases the importance of design using visually aesthetic yet purposefully unintuitive UI/UX elements.

## SKILLS

**Programming Languages**: Python, Java, JavaScript, TypeScript, C/C++, Go, SQL

**Technologies**: React, React Native, Node.js, Express.js, Django, Dash, Plotly, Pandas, Bash, NumPy, JUnit, HTML/CSS, PostgreSQL, MongoDB, Docker, Figma, Colab/Jupyter Notebooks