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, three.js, Django, Dash, Plotly, Pandas, Bash, NumPy, JUnit, HTML/CSS, PostgreSQL, MongoDB, Docker, Figma, Colab/Jupyter Notebooks