Andrew Khadder

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EXPERIENCE

Software Engineer Intern — June 2024 – September 2024
Zscaler — *San Jose, CA*
- Dynamically created a **Visual Test Suite** using **Playwright** of over **400+ tests** using a custom built template
- Developed a **visual testing library** in Playwright to allow more **granular visual testing** for use by developers
- Enabled the team to identify and address UI regression, **significantly reducing manual QA effort by 80%**
- **Automate test suite into CI/CD workflows** to ensure consistency of all design and visual changes
- Created library to sync **Design Tokens** through **Figma REST API, reducing manual integration by 90%**
- Levereged Amazon's **Style Dictionary** in order to easily convert **Design Tokens** files to usable **CSS files**

Software Engineer Lead — July 2024 – Present
DesignVerse UCR — *Riverside, CA*
- Spearhead a team of **20+ developers** in developing a **Next.js app** to drive UCR's premier design competition
- Led Hackathon Website **framework development** to version site for use with other hackathon organizations
- **Lead multiple workshops** focused towards Full Stack Development to help committee members contribute
- Design and maintain **Firebase noSQL database** to ensure security and efficiency for handling **100+** competitors
- Deployed and actively managed the website through **Vercel** to enhance visibility and overall user experience

Project Manager — April 2024 – Present
Association for Computing Machinery at UCR (ACM@UCR) — *Riverside, CA*
- Led the creation of an informational website for an AI club, **guiding a team of 10+ beginner developers**
- Manage the project repository, ensuring **efficient issue tracking and resolution** to maintain consistent progress
- Perform **Code Reviews**, ensuring best practices and consistent code quality before **merging Pull Requests**
- Define **Project Milestones** to steer the team towards completion and ensure alignment with the club's vision

PROJECTS

mood-ify | *Python, FastAPI, Scikit-learn, Dall E, ChatGPT* — **github.com/khandrew1/mood-ify**
- Developed a backend app that analyzes Spotify playlists and **generates custom AI art based on its mood**
- Built and trained **custom machine learning classification model** using track metadata and genre embedding
- Engineered modular ML pipeline for **preprocessing, feature extraction, training, evaluation, deployment**
- Integrated Spotify Web API for user authentication and dynamically retrieved playlist metadata to power analsysis

Musicify | *Next.js, OpenAI, Spotify API, tailwindcss* — **github.com/khandrew1/musicify**
- A website that uses the **GPT-3.5 AI Model** to help users decide what music to listen to based on your mood
- Implemented **OpenAI API** and **Spotify API** to help recommend music to users based on any text based prompt
- Facilitated seamless integration of APIs in order to efficiently deliver **personalized music recommendations**
- Employed **TailwindCSS** for a visually appealing and consistent design, ensuring optimal and friendly **UI/UX** .

Aurora | *Next.js, tailwindcss, Firebase, NextAuth* — **github.com/acm-ucr/aurora**
- A website that helps **streamline hackathon management** by providing a dashboard for users and admins
- **Currently in use by 5 hackathon organizations** on campus to host, maintain, and promote their events
- Architected a scalable system from scratch using Next.js to **reliably support 500+ hackathon participants**
- Implemented **virtualized infinite scrolling** on all dashboard tables reducing server load and queries by **30%**

EDUCATION

University of California, Riverside — Riverside, CA
Bachelor of Science in Computer Science — *September 2022 – June 2025*
- Relevant Coursework: Edge Computing, Machine Learning, Discrete Structures, Formal Language and Automata, Computer Science I & II, Data Structures and Algorithms, Software Construction, Machine Organization & Assembly Programming

TECHNICAL SKILLS

Languages: Javascript, Typescript, C++, SQL, Python
Frameworks: Next.js, React, tailwindcss, Playwright, OpenAI, Scikit
Developer Tools: Git, Github, Firebase, Linux, VS Code, Storybook