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%**
- Created library to sync **Design Tokens** through **Figma REST API, reducing manual integration by 90%**

Software Engineer Lead   July 2024 – June 2025
DesignVerse UCR   *Riverside, CA*
- Spearhead a team of **20+ developers** in developing a **Next.js app** to drive UCR's premier design competition
- **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 **500+** competitors

PROJECTS

Memory Sharing MCP Server | *Python, FastMCP, Redis, Next.js*   **github.com/khandrew1/vault-mcp**
- Awarded **3rd place** in the **MCP & Agents Hackathon**, recognized for innovative cross-agent memory sharing
- Architected and implemented an MCP server, enabling **seamless context sharing across multiple AI clients**
- Integrated **Redis vector store** for storage; supporting both short-term and long-term knowledge retention
- Built web dashboard for **managing API keys and memory records**; enhancing user control and observability.

AI Playlist Art Generator | *Python, FastAPI, Scikit, 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 analysis

AI Leetcode Tutor | *React, Chrome API, Gemini AI API*   **github.com/khandrew1/leetcode-tutor**
- A Google Chrome Extension that gives **AI-powered contextual hints** directly onto Leetcode problems
- Implemented content scripts to scrape the problem statement and code to query to deliver personalized guidance
- Integrated **Google Gemini** via secure background workers, while keeping all user code on-device for privacy

AI Song Recommender | *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**

Hackathon Website Portal | *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
- Optimized backend API routes with serverless functions to reliably scale and support **500+ concurrent users**
- **Currently in use by 5+ hackathon organizations** on campus to host, maintain, and promote their events
- 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*
- **GPA: 3.7**
- Relevant Coursework: Computer Security, 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, HTML, CSS, Java, C++, SQL, Python
Frameworks: Next.js, React, tailwindcss, Playwright, OpenAI, Scikit, FastAPI
Developer Tools: Git, Github, Firebase, Linux, VS Code, VIM, Storybook