ARYAN SHELKE

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EXPERIENCES

SJSU SOFTWARE AND COMPUTER ENGINEERING SOCIETY [sce.sjsu.edu]   *March 2025 - Present*

AI/ML Officer

- Fine-tuned a ChatGPT model to generate measures of music as MIDI files for a generative AI music application

#INCLUDE [includedavis.com]   *Oct 2021 – Apr 2022*

Front-end Web Developer

- Developed the front-end for a Vietnamese organization's website with a large team of students utilizing Next.js
- Translated Figma designs into modular React components in collaboration with web designers
- Built a full-stack recipe app with React and Node.js, integrating a public database alongside 2 backend developers

YAPA KIDS [yapakids.org]   *Jul 2020 – May 2021*

C++ Program and Curriculum Lead

- Founded a C++ program and led a team of six high school student teachers and three curriculum creators
- Taught weekly programming classes via Zoom to 50+ middle school students during the COVID-19 pandemic
- Developed a beginner-friendly C++ curriculum with simplified explanations and examples for younger students

PERSONAL PROJECTS

TRENDSCOPE [github.com/aryansh3lke/trendscope]   *Jan 2025 – Feb 2025*

Stack: *Next.js, FastAPI, OpenAI, Selenium, MongoDB, Tailwind, Shadcn UI, Vanta.js*

- Webs scraped top trends and their tweets on X (Twitter) using Selenium's Chromedriver in Python
- Performed abstractive summarization and sentiment analysis on the top 50 tweets with ChatGPT
- Implemented a cron job to schedule periodic data scraping and analysis with FastAPI
- Stored scraped data in MongoDB and optimized client-side caching in Next.js to reduce excessive requests

YT REHASHED [github.com/aryansh3lke/yt-rehashed]   *June 2024 – present*

Stack: *React Router, Flask, OpenAI, Tailwind, Material UI*

- Engineered ChatGPT prompts to summarize YouTube videos and analyze content creators using only a link
- Integrated a rotating residential proxy to bypass YouTube's IP bans when scraping video transcripts
- Developed a video downloader using Youtube-DL and FFmpeg to extend the Flask RESTful API

ANIME RECOMMENDER [github.com/aryansh3lke/anime-recommender]   *May 2023 – present*

Stack: *Next.js, Flask, NextAuth.js, Prisma, Neon Postgres, Tailwind, Next UI*

- Trained KNN and SVD collaborative filtering models using the Surprise library to build an anime recommender
- Cleaned and visualized user rating datasets from Kaggle using NumPy, Pandas, and Matplotlib
- Implemented user authentication with NextAuth.js (OAuth) and integrated a watchlist feature with PostgreSQL

EDUCATION

SAN JOSE STATE UNIVERSITY   *Expected: Jan 2025 - June 2027*

Master of Science in Software Engineering (Specialization in Data Science)

UNIVERSITY OF CALIFORNIA, DAVIS   *Sept 2021 – Dec 2023*

Bachelor of Science in Computer Science   **Cumulative GPA: 3.93**

Relevant Coursework: Advanced Data Structures & Algorithms, Algorithm Design & Analysis, Operating Systems, Computer Architecture, Machine Learning, Artificial Intelligence, Web Programming, Computational Linguistics

SKILLS

- **Languages:** C/C++, Python, HTML/CSS, JavaScript, Typescript, SQL
- **Frameworks:** React.js, Next.js, Node.js, Express.js, Flask, FastAPI, Tailwind CSS
- **Software:** Github, Cursor AI, Docker, Kubernetes, AWS, Vercel, Railway, Figma, Microsoft Office