ARYAN SHELKE

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EXPERIENCES

#INCLUDE [includedavis.com]   *Oct 2021 – Apr 2022*
Front-end Web Developer
- Coded the front-end for a client Vietnamese organization with a large team of students utilizing Next.js
- Collaborated with designers using Figma to generate frontend components as well as developers using VS Code and GitHub to merge the work completed on different routes on the website
- Created a rudimentary React/Node.js recipe app with 2 other backend developers to gain fundamental web development experience with React, HTML, CSS, and Javascript after being accepted into the initial cohort

YAPA KIDS [yapakids.org]   *Jul 2020 – May 2021*
C++ Program and Curriculum Lead
- Founded a C++ computer science program at a volunteer organization and oversaw 6 high school student teachers and 3 curriculum creators
- Taught weekly programming classes on Zoom to over 50 middle school students during the COVID-19 pandemic
- Developed and transformed a comprehensive C++ curriculum to be more appropriate for younger students by incorporating kid-friendly terms and examples

PERSONAL PROJECTS

TRENDSCOPE [github.com/aryansh3lke/trendscope]   *Jan 2025 – Feb 2025*
Stack: *Next.js, FastAPI, OpenAI, Selenium, MongoDB, Tailwind, Shadcn UI, Vanta.js*
- Web scraped the top trends on X (Twitter) with Selenium's Chromedriver in Python and developed a cron job to schedule periodic data scraping with FastAPI
- Performed abstractive summarization and sentiment analysis on the top 50 tweets extracted from each trend with ChatGPT to give users helpful insights on trending topics without having to scroll on the platform
- Utilized a MongoDB instance to store the trends data and Next.js to cache it on the client side for periods of 10 minutes before revalidating to avoid making excessive requests to the server and database

YT REHASHED [github.com/aryansh3lke/yt-rehashed]   *June 2024 – present*
Stack: *React Router, Flask, OpenAI, Tailwind, Mantine UI*
- Developed an app to help students and researchers save time watching YouTube by prompt engineering ChatGPT to summarize videos with just a link
- Integrated a rotating residential proxy to avoid YouTube's IP bans when web scraping the video for its transcript
- Extended the Flask RESTful API with additional features such as summarization of the comment section and an efficient high resolution video downloader with the Youtube-DL and FFmpeg libraries

ANIME RECOMMENDER [github.com/aryansh3lke/anime-recommender]   *May 2023 – present*
Stack: *Next.js, Flask, NextAuth, Prisma, Postgres, Tailwind, Next UI*
- Trained KNN and SVD collaborative filtering models with Python's Surprise library to make recommender systems similar to famous streaming services like Crunchyroll to recommend animes to anime fans
- Extracted and cleaned up large Kaggle datasets of user ratings with NumPy and Pandas in a Jupyter notebook, so that insightful data visualization and analysis could be performed with Matplotlib and Seaborn
- Added authentication and data storage with NextAuth.js (OAuth) and Prisma ORM (Vercel Postgres) to allow users to add animes to their watchlist to refer back to in the future

EDUCATION

SAN JOSE STATE UNIVERSITY   *Expected: Jan 2025 - May 2026*
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, VS Code, Docker, Vercel, Railway, Microsoft Office