Tyler Tran

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EDUCATION

University of California, Los Angeles Expected Graduation: December 2024
Bachelor's Degree in Computer Science and Linguistics, Data Science Minor *Los Angeles, CA*
- GPA: 3.5
- Organizations: ACM TeachLA, Bruin Club Tennis

TECHNICAL SKILLS

Languages: C, C++, Java, JavaScript, Python, Bash, HTML, CSS
Frameworks/Libraries: NumPy, Express.js, React.js, TypeScript, Next.js, Node.js, Sass, Flutter, Prisma ORM
Tools/OS: Git, Github, Netlify, Vercel, Linux/MacOS/Windows
Databases: NoSQL (Google Firebase, Apache Hive), PostgreSQL (Supabase)

EXPERIENCE

Meristream LLC June 2023 - Present
Full-Stack Software Engineer Intern *Los Angeles, CA*
- Implemented a Software-as-a-Service (SaaS) model for the Meristream web application, a subscription-based platform that provides users access to an infinite world-class meditative music algorithm.
- Co-designed and implemented the front-end design of the Meristream website, utilizing server-side rendering (SSR) through Next.js to optimize page load times and enhance SEO performance.
- Leveraged Prisma ORM to efficiently document user data, handle user subscriptions, active device logins, and transaction history, seamlessly integrating with Supabase PostgreSQL Database.
- Established secure communication between the front-end UI states, Stripe API and Supabase via a self-developed Express.js API with webhooks, ensuring reliable, idempotent operations for secure data transmission.

ACM TeachLA April 2023 - Present
Software Developer *Los Angeles, CA*
- Created engaging web modules about the topic of recursion utilizing Typescript and SCSS to enhance interactive learning experiences for high school students.
- Designed and implemented reusable component modules for demonstrations of factorials and total cost computations and function call stack on the ACM RecursionLab, illustrating recursive problem-solving abilities.
- Devised a strategic sprint plan for both my individual and group projects; leveraging github for issue announcements, and pull request monitoring.

PROJECTS

Retainify | *Flutter, Apache Hive, Notion API, Cohere LLM* Github
- Collaborated with a small team of developers to develop a cross-platform mobile application that queries through a user's notes in Notion, sends that raw text to Cohere AI's Large Language Model to generate study questions and displays the AI generated questions to the user for practice.
- Created the back-end communication between the Hive NoSQL database and the mobile UI by writing SQL queries and leveraging different data structures to persistently store the data obtained from the Notion API.
- Orchestrated the pipeline for redirecting raw text data to the Cohere Large Language Model by establishing the communication between API endpoints and redirecting the AI generated text to the front-end UI.

BClub | *React.js, Node.js, Google Firebase, Git, Github, CSS* Github | Website
- Worked with a team of developers to create a web application that enables users to review, discover, and share experiences about UCLA's clubs and organizations.
- Integrated the dynamic club review system, bridging Firebase Realtime Database's back-end data with the front-end interface and UI, empowering users to create, edit, and delete ratings and reviews for individual clubs.
- Implemented the User-Login/Authentication System, facilitating seamless communication between the website's input fields and the Firebase backend for enhanced security and user authentication.