Tyler Tran

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EDUCATION

University of California Los Angeles   Los Angeles, CA
B.A. Computer Science and Linguistics, Data Science Minor   *Expected Graduation: June 2025*
- GPA: 3.5

EXPERIENCE

Meristream   June 2023 - Aug 2023
Software Engineer Intern   *Los Angeles, CA*
- Constructed a scalable database infrastructure to handle over 100,000 users of relational data between subscriptions, customers and user transactions.
- Utilized server-side rendering (SSR) through Next.js to optimize page load times by over 15% and reduce internal memory usage by 23%.
- Integrated Prisma Object Relational Mapping to efficiently model: user data, user subscriptions, active device logins, transaction history, and construct relations within the 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, using Agile methodologies.
- Implemented reusable component modules for demonstrations of recursive problem solving methods on the ACM RecursionLab for over 1,000 students to interact with.
- Resolved major bugs residing in the frontend UI and modularized the existing code base to automatically run extensive linting error checks to reduce compilation bugs.

PROJECTS

Retainify | *Flutter, Apache Hive, Notion API, Cohere LLM*   *Github*
- Developed a cross-platform mobile application that queries through a user's notes in Notion, sends the raw text to Cohere AI's Large Language Model, and displays the AI generated questions to the user for practice.
- Created the communication between the Hive NoSQL database and the mobile UI to persistently store the data obtained from the Notion API into local storage by writing SQL queries and leveraging different data structures.
- Established ETL pipelines to provide raw text data to the Cohere LLM and API Endpoints, enabling users to interact with the AI generated text on the front-end UI in an informed manner.

BClub | *React.js, Node.js, Firebase, Git, Github, CSS*   *Github* | *Website*
- Created a web platform that enables users to review, discover, and share experiences about UCLA's 1000+ 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.

TECHNICAL SKILLS

Languages: C, C++, C#, Java, JavaScript, TypeScript, Python, HTML, CSS/Sass
Frameworks/Libraries: Express.js, React.js, Next.js, .NET Core, Node.js, Django
Tools/Platforms: AWS, Docker, Git, Github, Netlify, Vercel, Linux
Databases: PostgreSQL, MySQL, Firebase, Apache Hive, MongoDB, Supabase