

Tyler Tran

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EDUCATION

University of California Los Angeles

B.A. Computer Science and Linguistics, Data Science Minor

- GPA: 3.5

Expected Graduation: June 2025

Los Angeles, CA

TECHNICAL SKILLS

Languages: C, C++, Java, JavaScript, TypeScript, Python, SQL, Bash, HTML, CSS, Dart

Frameworks/Libraries: AWS, Express.js, React.js, Next.js, Node.js, NumPy, Sass, Flutter, Prisma ORM, RESTful APIs

Tools/OS: Docker, Git, Github, Netlify, Vercel, Linux/MacOS/Windows

Databases: PostgreSQL, MySQL, Firebase, Apache Hive, MongoDB, Supabase

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%.
- Leveraged Prisma Object Relational Mapping to efficiently model user data, handle user subscriptions, active device logins, and transaction history, and to 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.
- 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 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](#)

- 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.