Tyler Tran

(714) 404-1438 | tylerduytran@gmail.com | tylertran.me | LinkedIn | GitHub

EDUCATION

University of California, Los Angeles   Los Angeles, CA
Bachelor's in Computer Science and Linguistics, Data Science Minor   *Expected Graduation: June 2025*
- GPA: 3.5

TECHNICAL SKILLS

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

EXPERIENCE

Meristream   June 2023 - September 2023
Software Engineer Intern   *Los Angeles, CA*
- Architected a scalable database infrastructure to handle over 100,000 users of relational data between subscriptions, customers, and user transactions.
- Utilized Next.js server-side rendering 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 Supabase PostgreSQL Database.
- Established secure communication between front-end UI states, Stripe API and Supabase by developing an Express.js API to ensure reliable, idempotent operations for secure data transmission.
- Configured AWS IoT Device Management services to enforce login restrictions for IoT devices, leveraging selected payment options for enhanced security and access control.

ACM TeachLA   April 2023 - Present
Software Developer Intern   *Los Angeles, CA*
- Constructed a web-based integrated development environment (IDE) featuring in-browser support for Python, JavaScript, HTML, and React using TypeScript and Go for seamless multi-language coding and development.
- Implemented reusable component modules for demonstrations of recursive problem solving methods on the ACM RecursionLab for over 1,000 students across Los Angeles high schools to interact with.
- Debugged critical issues within the front-end UI and restructured the existing codebase to run automated error checks, reducing runtime compilation errors by 26%.

PROJECTS

Retainify | *Flutter, Apache Hive, Notion API, Cohere LLM*   GitHub
- Developed a cross-platform mobile app that retrieves user notes from Notion, forwards the raw text to Cohere AI's Large Language Model for analysis, and presents the AI-generated questions to improve user information retention.
- Refactored the communication between the Hive NoSQL database and mobile UI to persistently store data obtained from the Notion API and Cohere LLM into local storage.
- Established ETL pipelines to provide raw text data to the Cohere LLM and API endpoints, enabling users to interact with AI generated text on the front-end UI in an informed manner.

BruinClub | *React.js, Node.js, Firebase, Git, GitHub, CSS*   GitHub | Website
- Launched a web platform that empowers users to explore, review, and share personal experiences about UCLA's 1000+ clubs and organizations.
- Integrated a dynamic club review system, bridging Firebase Realtime Database's back-end data with the front-end UI, enabling users to write, edit, and delete ratings and reviews for individual clubs.
- Implemented a User-Login and Authentication system, facilitating seamless communication between the website's input fields and Firebase back-end for improved user security.