Albert Yan

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Education

University of Southern California Los Angeles, CA
Master of Science in Computer Science; GPA: 4.00 Dec 2022
Bachelor of Science in Computer Science; GPA: 3.98 (Summa Cum Laude)

Skills

Languages: JavaScript/TypeScript, Python, SQL, C++, Java

Frameworks/Tools: React, Next.js, Node.js, Express, SDK Development, AST Parsing, CI/CD, JWT, Clerk, Jest, Playwright

Experience

Founding Engineer San Francisco, CA
Quill (YC-backed startup) Jul 2024 – Present

- Founding engineer building embedded analytics platform serving 10+ clients. Architected complete refactor of core ReportBuilder component, implementing AST-driven architecture that reduced initial query load times by 90% across 8 database types including PostgreSQL, BigQuery, and Snowflake.
- Redesigned SQL generation system using Abstract Syntax Tree parsing to eliminate query bugs and enable consistent application of complex multi-tenant filtering across all supported database types.
- Built sophisticated multi-tenancy architecture supporting hierarchical data relationships, enabling enterprise customers to serve their own multi-tenant applications with cross-table filtering capabilities.
- Expanded SDK coverage from 2 to 6 programming languages (Node.js, Python, PHP, Go, Ruby, .NET) with comprehensive database integration testing, directly contributing to acquisition of major enterprise clients.

Software Engineering Intern Los Angeles, CA
SISU VR Aug 2022 – Dec 2022

- Developed custom C# scripts in Unity to convert 3D modules to WebGL, cutting build size and compile time by 90%.
- Redesigned company website using Django, aligning with Figma prototypes to enhance UI and UX.
- Collaborated directly with CTO to define project milestones and deliver on tight deadlines.

Front-end Software Engineer Taipei, Taiwan
iLinke Jun 2023 – Jul 2023

- Led migration of legacy Angular.js app to Next.js, boosting SEO and reducing time-to-content by 30%.
- Refactored monolithic code into modular React components, cutting codebase size by up to 75%.
- Integrated Redux and React Hooks for reusable, maintainable state management.

Front-end Software Engineer Remote
TGIF Toastmasters Jun 2022 – Jul 2022

- Spearheaded design and build of the TGIF Toastmasters Club website to streamline operations for 30+ members and attract new visitors.
- Created Figma prototypes for rapid iteration and feedback with stakeholders, ensuring alignment on design and UX.
- Implemented the site with Next.js, React, and TypeScript; optimized performance (98+ PageSpeed score) and integrated Google Sheets API, SendGrid, and Material UI.

Software Engineering Intern Los Angeles, CA
Encore Music Technologies Jan 2022 – May 2022

- Built responsive single-page React/Typescript app to showcase music artists and live events.
- Created 10+ reusable UI components with MaterialUI; connected frontend with company API using Axios.
- Integrated Stripe API for in-app purchases, secured with Express.js backend.

Certifications

AWS Certified Developer - Associate (Oct 2023)