Joash Tan

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Summary

Self-taught software engineer with experience building and shipping production mobile and web applications. Background in Business Analytics, with experience working on data-driven projects involving analysis, modelling and decision-making. Experience spans production software development and applied analytics.

Technical Skills

Languages: TypeScript, HTML/CSS, Python, SQL, LaTeX
Frameworks: React Native, Expo, React, Next.js, Astro
Developer Tools: Git, Jest, Maestro, Playwright, Fastlane, Figma
Libraries: TanStack Query, Zustand, SQLite, MMKV

Experience

Frontend Software Engineer Jan 2026 – Present
Cursive Pte. Ltd. - Independent software studio *Singapore, Singapore*

- Designed, built and shipped cross-platform React Native/Expo applications for iOS and Android, including Harmonise, a calendar and task-planning application, and Vector, a study application for Singapore students.
- Architected mobile state and persistence using TanStack Query for server state, Zustand for client state, MMKV for fast persistent storage, and SQLite for durable local data.
- Integrated remote and device calendars across iOS and Android, implementing permissions, calendar visibility and synchronisation flows while reconciling local and server-backed data.
- Built animation-heavy interfaces with React Native Reanimated, including platform-specific interaction and keyboard behaviour across iOS and Android.
- Built automated testing and release workflows using Jest, Maestro and Fastlane for mobile regression testing and production delivery.

Web Developer Oct 2025 – Present
Freelance *Singapore, Singapore*

- Designed, developed and deployed production sites for small businesses using Next.js App Router and Astro, including newstationbars.com
- Improved search visibility through SEO optimisation, server-side rendering and Lighthouse-focused performance metrics, contributing to increased CTR and impressions in Google Search Console.
- Deployed and maintained applications on Cloudflare Workers.

Data Analytics Intern Aug 2023 - Dec 2023
EV-electric (EVe) Charging Pte. Ltd. - deploys public EV-charging infrastructure *Singapore, Singapore*

- Built automated mobile application scrapers using Python and MITMproxy to collect operational datasets.
- Cleaned and analysed datasets using Pandas and Matplotlib that identified infrastructure stress points in Singapore's EV charging network.
- Collaborated with external consultants to support the development of EVe's charger location map with Leaflet and OpenStreetMap.
- Automated company-wide email signature generation using HTML, CSS and JavaScript, replacing a consultant-managed solution with a more maintainable internal workflow.

Education

Singapore University of Technology and Design (SUTD) Singapore, Singapore
Bachelor of Engineering (Engineering Systems and Design) with Honours *2021 - 2025*

- Specialisation in Business Analytics and Operations Research with Minor in Computer Science.
- GPA: 4.81/5.00
- Achievements: SUTD Honours List for Freshmore, Sophomore, Junior and Senior Year; Top student for module "Science for a Sustainable World"; IES Gold Medal – Top Student in Engineering Systems and Design.