

Timothy Wang

Senior Frontend Engineer

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Senior Frontend Engineer with 2+ years of experience building React and TypeScript applications across travel and financial services platforms. Experienced in end-to-end feature ownership, accessibility, testing, CI/CD, and modern frontend architecture. Strong track record delivering scalable customer-facing products in cross-functional environments.

EXPERIENCE

Senior Frontend Engineer | Qantas Hotels

Apr 2025 – Mar 2026

- Redesigned the end-to-end testing architecture in Cypress and contributed to CI/CD pipelines with automated quality gates, cutting CI execution time by 75% (40m → <10m) and improving reliability across critical booking flows.
- Implemented a multi-layer accessibility strategy (axe-core, eslint-plugin-jsx-a11y, jest-axe, Pa11y-CLI), achieving and sustaining WCAG 2.1 AA compliance with zero production regressions.
- Built a feature flag-driven targeting system for dynamic UI rendering based on geographic and contextual data, supporting scalable experimentation and personalisation.
- Owned end-to-end feature delivery across high-traffic hotel booking flows using React and TypeScript, integrating with REST and GraphQL APIs and collaborating on full-stack design to support reliable customer journeys.
- Contributed to shared component libraries and frontend architecture used across Hotels and Holidays, improving consistency and enabling faster delivery across teams.
- Used AI co-pilot tools (Gemini, Cursor, Claude) as a core part of daily workflow for code generation, test creation, refactoring, and debugging; developed and shared prompt patterns across the team to improve consistency and velocity. Led an AI-assisted workflow that delivered 250 of 500 Enzyme → React Testing Library migrations, validating and securing all AI-generated output before merge.
- Mentored a Technology Graduate through code reviews and pair programming across React, TypeScript, and testing practices.

Technology Graduate | Qantas Group

Aug 2023 – Apr 2025

Rotated across Frontend Engineering, Core Platforms Technology Enablement, and Group Cyber Automation - contributing to customer-facing products and internal platforms.

- Delivered Next.js frontend features for Qantas Money (QPay), improving reliability across key customer payment flows.
- Implemented GA4 analytics instrumentation in partnership with Data & Analytics, iOS, Android, and Product teams, improving cross-platform visibility across QPay user journeys.
- Led technical discovery and delivery of a duplicate-check solution to prevent repeat travel insurance points redemption charges, eliminating erroneous transactions for customers.

Digital Transformation Graduate | HLB Mann Judd

Feb 2023 – Aug 2023

- Automated quarterly reporting and client engagement letter workflows using Power Automate, removing weeks of manual processing per cycle and contributing to six-figure annual operational cost savings.
- Collaborated with business stakeholders to identify workflow inefficiencies and implement practical automation solutions across reporting and client engagement processes.

SKILLS

Languages: TypeScript, JavaScript (ES6+), HTML5, CSS3 / SASS

Frameworks & Libraries: React.js, Next.js, Vite, Redux, Design Systems, Component Libraries

Web Architecture: SSR / SSG, BFF architecture, Node.js, microservices, API-driven architectures, REST APIs, GraphQL, feature flag systems

Accessibility: WCAG 2.1 AA, ARIA, semantic HTML, automated a11y testing (axe-core, Pa11y, jest-axe)

Testing & Quality: Cypress (E2E), Jest, React Testing Library, TDD

AI Tooling: Claude, Gemini, OpenAI Codex - used daily for code generation, refactoring, test creation, and prompt pattern development; proven ability to validate and secure AI-assisted output

DevOps: Buildkite, GitHub Actions, CI/CD pipelines, Git, Agile / Lean delivery

Tools & Platforms: Splunk, Postman, Contentful, Storybook, Optimizely, Sanity

PROJECTS

Rally Reserve | Next.js 16, React 19, TypeScript, PostgreSQL, Prisma, Auth.js, Zod, Jest + RTL, Playwright *In progress*

- Multi-tenant court-booking platform with per-venue timezones, loyalty rewards, recurring bookings, and concurrency-safe reservations - built full-stack from scratch.
- Backed by 300+ unit tests and a Playwright E2E suite; designed schema and API layer from scratch using Prisma + PostgreSQL.

Job Search Automator | Python, Web Scraping, Pandas, Automation github.com/timzw961/automated-job-search

- Local tool that scrapes job boards, scores roles against my stack, and auto-tailors my resume per application - with no LLM API or per-call cost.

EDUCATION

Bachelor of Computer Science (Software Engineering)

2019 – 2022

University of Wollongong

High Distinction Average · Dean's Merit List (2020–2022)