

Hollin Ariyawansa

Full-Stack TypeScript Engineer | AI-Integrated Product Development

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Full Australian work rights — no sponsorship required

PROFESSIONAL SUMMARY

Full-Stack TypeScript engineer with 2+ years of production experience shipping scalable web, backend, and AI-integrated applications across enterprise and startup environments; relocated to Melbourne in early 2026 with full work rights. Specialise in TypeScript end-to-end — React, Next.js, Node.js, NestJS, and PostgreSQL — with proven delivery on transaction-heavy systems, freelance client builds, and LLM-powered product features, hands-on experience evaluating frontier coding agents, and a strong emphasis on clean architecture, spec-driven development, and CI/CD.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, SQL

Frontend: React, Next.js (App Router, RSC), Vue 3 (Composition API), Vite, React Router, Tailwind CSS, shadcn/ui, React Query (TanStack), React Hook Form + Zod, Redux, PWA, Mapbox GL JS

Backend: Node.js, Express, NestJS, Payload CMS 3, Spring Boot, REST + WebSocket (Socket.IO) API design, real-time pub/sub, JWT auth (access + rotating refresh tokens), Auth.js, GitHub OAuth, RBAC, rate limiting

AI / LLM: Anthropic Claude (Vercel AI SDK), OpenAI APIs, rule-based + LLM hybrid pipelines, coding-agent evaluation (SWE-bench-style task authoring, trajectory and patch review, verifier test suites)

Databases & ORM: PostgreSQL (Neon serverless, branch-based environments), MySQL, MongoDB, Prisma, versioned schema migrations, schema design, transactions

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS, SES, EventBridge), AWS Amplify, Vercel, Docker, GitHub Actions CI/CD, dev/prod environment isolation

Testing & Quality: Vitest, Jest, supertest, React Testing Library, unit + integration testing, TypeScript strict mode, structured logging, error boundaries, ESLint

Practices: Spec-driven development (PRD, ADRs, OpenAPI, TDD), Agile/Scrum, code review, i18n, accessibility awareness

PROFESSIONAL EXPERIENCE

Freelance Full-Stack Developer — Yenesha Travels (client engagement)

Jun 2026 – Present

Remote | Travel Agency — WordPress to Next.js + CMS Rebuild

Tech: Next.js 16 (App Router, React 19), TypeScript, Payload CMS 3, PostgreSQL (Neon), AWS S3, Tailwind CSS v4, Google Places API, Vitest, Vercel.

- Rebuilt a Sri Lankan outbound travel agency's legacy WordPress site as a Next.js 16 application with Payload CMS 3 embedded in the same app, giving a non-technical client a full admin for destinations, gallery, and enquiries, with S3-backed media and live Google ratings via the Places API.
- Replaced schema auto-push with reviewed, versioned SQL migrations that run automatically on production deploys only, so preview builds never mutate the production schema.
- Isolated dev and prod with Neon database branches and separate S3 buckets, backed by seed-script guards that refuse to run against the production database or bucket without an explicit override.

Status: development complete and deployed to staging; supporting client content entry and final revisions ahead of production cutover (AWS migration planned and documented). [Staging Demo](#)

Freelance AI Evaluation Engineer (contract) — DataAnnotation

Jul 2026 – Present

Remote | AI Training Data / Model Evaluation

- Evaluate AI coding agents on real-world software engineering tasks: author repository-based tasks, review agent trajectories and generated patches, and verify results against test suites in containerised environments.
- Design tool-use and agentic scenarios (schemas, prompts, rubrics) to surface model failure modes, and write Python acceptance tests for AI-built applications.
- Apply structured evaluation playbooks and resolve inter-rater disagreements to maintain consistent quality across model comparisons.

Software Engineer — SLTMobitel Pvt Ltd

Nov 2024 – Jan 2026

Sri Lanka | Telecommunications / FinTech

Built and shipped core modules of a nationwide, high-volume fuel-card platform for corporate fuel allowances.

Project: Fuel Card Management Platform — Web Dashboard Revamp

- Migrated a legacy Java JSP application into a modern React + Spring Boot stack with REST APIs, eliminating technical debt and unblocking new product features.
- Built responsive dashboards, reporting modules, and analytics views used daily by corporate admins to monitor fuel allowances, employees, and transaction history.
- Designed and implemented secure backend APIs supporting high-volume transactional data with role-based access, pagination, filtering, and audit logging.

Project: Fuel Card POS System — Android Application

- Led the redevelopment of a legacy Linux/C POS terminal into a modern Android application deployed to fuel stations nationwide.
- Implemented NFC-based card reading, client-side transaction validation, and offline-tolerant fuel-purchase workflows.
- Integrated the POS with backend services for real-time authorisation and settlement, and drove testing, bug triage, and rollout coordination for a stable nationwide deployment.

Software Engineer Intern — Code94 Labs (Private) Limited

Jan 2024 – Nov 2024

Sri Lanka | Product Engineering / Agency

Project: Data Collection and Visualisation System - <https://leerlens.nl/> (Dutch Client)

- Built a secure data collection platform with Next.js, Node.js, and NestJS, including interactive Chart.js dashboards for operational insights.
- Implemented CSV export and automated PDF report generation for stakeholder reporting.
- Designed normalised MySQL schemas for efficient querying and reliable data handling.

PROJECTS

Freshcast — AI-Powered Sales Tracking & Demand Prediction (PWA)

Mar – Jun 2026

Tech: Next.js 16 (App Router, RSC), TypeScript, PostgreSQL (Neon) + Prisma, Anthropic Claude / Vercel AI SDK, Amazon SES (Resend fallback) + EventBridge, Sentry, AWS Amplify + Vercel.

- Solo-designed and shipped a live PWA that helps small retailers (market vendors, butchers, cafés) log daily sales in natural language and receive data-driven demand forecasts — removing the friction of traditional POS systems.
- Built a hybrid natural-language sales parser combining an LLM path (Claude via Vercel AI SDK) with a rule-based fallback: tokenisation, unit normalisation (50+ variants), fuzzy product matching via Levenshtein distance, and ambiguity-detection prompts.
- Designed a weighted prediction engine blending weekday patterns (60%) with recent 7-day trends (40%), with confidence scoring based on data volume and variance, plus AU-VIC public-holiday multipliers.
- Shipped as an installable PWA with dual deployment (Vercel + AWS Amplify) under spec-driven discipline — PRD, 16 ADRs, TDD, Vitest + GitHub Actions CI (52 tests) on every push — and hardened for production with atomic Prisma transactions, per-tenant isolation, rate-limited auth, timezone-aware dates, and structured logging.

[Live Demo](#) | [GitHub](#) | Demo login: `demo@freshcast.app / demo1234`

Nimbus — Real-Time City Weather & Alerts

May – Jun 2026

Tech: Node.js, Express, TypeScript, Socket.IO, PostgreSQL + Prisma, Zod, JWT (refresh-token rotation); React, Vite, Tailwind CSS, PWA; Docker, GitHub Actions CI, Vitest + supertest, OpenAPI.

- Built a real-time alert system over WebSockets (Socket.IO) where each city is a coordinate-keyed broadcast room, so same-named cities get distinct, location-scoped alert streams pushed instantly to subscribed clients.
- Implemented production-grade auth with short-lived JWT access tokens plus rotating, DB-backed refresh tokens, bcrypt credentials and role-based access — one token guarding both REST routes and the WebSocket handshake.

[Live Demo](#) | [GitHub](#)

EDUCATION

BSc in Computer Science

Jan 2020 – Jan 2024

University of Peradeniya, Faculty of Science

CERTIFICATIONS & WRITING

- AWS Certified Cloud Practitioner
- **Technical Writing:** Active on Medium — Next.js, architecture, and building with AI: medium.com/@ariyawansahollin