

LEONARDO PRASETYO

SOFTWARE ENGINEER | FULL STACK | APPLIED AI | CLOUD

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Portfolio: <https://leonardoprasetyo.com>

EDUCATION

Bachelor of Engineering (Software) — Monash University, Clayton VIC

Graduated Dec 2023

- Contributed to the MCAV student team's autonomous vehicle passenger virtual reality experience in Unreal Engine 4, fixing pedestrian behavior and enhancing vehicle reflections.

Diploma of Engineering — Monash College, Clayton VIC

Graduated 2020

- Built and programmed an Arduino-based line-following robot using infrared sensors to navigate a duct-tape track, achieving the fastest completion time in a class robotics competition.

TECHNICAL SKILLS & PROJECTS

Full stack: Nuxt.js, Vue.js, React, Next.js, TypeScript, Pinia, NestJS, Node.js, REST APIs, OAuth 2.0, PostgreSQL, responsive web development.

Cloud & DevOps: AWS (IaC CDK, Cognito, Amplify, S3, EventBridge, Lambda, EC2/K/S, IoT Core/MQTT, Email SES) Cloudflare (Workers, Workflows, D1, R2, Vectorize, Gateway, IaC Terraform)

Azure (DevOps, Pipeline, Functions, Logic Apps, Power Automate, Storage Account, Foundry AI, IaC Bicep)

Firebase (Authentication, Realtime Database, Cloud Functions, Firestore, IaC Terraform)

AI Driven: Codex, Claude Code, MCP, Agent Tools, Skills, Instructions, Orchestrations, Plugins.

Applied AI: LangChain, RAG, embeddings, chunking, structured outputs, prompt-injection controls, Cloudflare Workers AI, Vectorize, AI Gateway, Vercel AI SDK, Azure AI Foundry.

Administration: Office suites, Google Drive, SharePoint, Outlook, Technical Documentation, Patch Release notes, User Guides.

Leonardo Portfolio (<https://leonardoprasetyo.com/>) | RAG Assistant

Sep 2026

- Deployed a Nuxt/TypeScript RAG assistant scoped to portfolio content, returning source-linked streaming answers through Cloudflare Workers AI, AI Gateway and the Vercel AI SDK.
- Designed a CMS for resume and PDF updates, using R2, D1, Workflows and Vectorize to automate chunking, embedding and index updates as files were added or removed.
- Maintained GitHub Actions publishing, daily quotas keyed by hashed IP addresses and prompt-injection controls; exposed chunks and embedding visualizations so retrieval behavior could be inspected.
- Improved Agentic text generation quality by utilizing larger parameter reasoning model and richer source content.

Web Developer (Project) — Christ Covenant Church (<https://www.covenant.org.au/>)

Oct 2024 – Jan 2025

- Delivered a responsive Wix Studio website from stakeholder requirements, with CMS-managed content, custom visual assets and mobile layouts.

RELEVANT EXPERIENCE

Outpost Ventures — Melbourne, VIC

Jun 2025 – Sep 2026

Energy consultancy serving Australian networks, developers and retailers.

Software Engineer

Sep 2025 – Sep 2026

- Utilized AI coding tools to accelerate full stack software delivery, code reviews, pull requests, testing, and refactoring tasks.
- Standardized main/dev deployments with preview builds for stakeholder review, validate feature and conducted feedback loops before production release.

- Simplified project development and repository count through monorepos and custom GitHub reusable templates, accelerated project setup and AI-assisted development with aligned scope with delivery estimates.
- Developed frontend UX, testing and deployment across Reglink, OPA, Verify and Datalink; refined cluttered AI-generated interfaces, receiving more positive feedback.
- Integrated and configured Google OAuth 2.0 through AWS Cognito, and Firebase to receive username, email, and profile avatar.
- **Konnect:** Full stack delivery for a transmission planning platform built for network planners, introduced spread sheet style interface to manage network assets on GIS map view for client's familiarity.
- Developed an AI structured output REST API for a site feasibility assessment complete with context builder, task queues, and backend commissioning workflows. (<https://suites.outpostventures.com.au/konnect>)
- **Reglink:** Responsible of frontend delivery for an energy consultation's submission tracking platform.
- Refined Reglink's user experience by translating critical client feedback into practical design improvements.
- **OPA:** Frontend delivery on a SCADA platform to configure site-scoped physical Raspberry Pi controller over Modbus/MQTT; demonstrated point's value overrides and designed commissioning screens.
- **Verifi:** Delivered an energy-determinations AI chat frontend and searchable document library in three weeks, fully satisfied stakeholder's requirements and strict deadline. (<https://verifi.outpostventures.com.au/>)
- **Arcane Scout:** Extended Python data scraping workflow adding 8,000 entries, and 50,000 missing required AER decision files for RegLink and Verifi platform.
- Planned initial data scraper system architecture that modularized workflow steps with high-level documentation resulting in over 60% of it being implemented for production.

Software Engineer Intern**Jun 2025 – Sep 2025**

- Produced a regulatory platform prototype with user authentication, a realtime database and TypeScript/Playwright data collection; refactored and maintained its Replit-generated code.

QIKSOLVE — Melbourne, VIC**May 2024 – Jun 2026**

Australian technology consultancy and software provider serving GMP (Goods Manufacturing Practices) clients.

Freelance Software Developer

- **Luminai-review:** Secured stakeholder approval for a GMP document validation prototype; Developed with Azure AI Foundry Agents and Copilot Studio that automate SOP, field-reference and calculation checks on handwritten batch records.
- Maintained Azure DevOps pipelines with YAML, IaC Bicep and Python to deploy Azure Resource Group that groups Logic Apps, Azure Functions, Storage Accounts, and Foundry instance for an email-triggered document validation workflow.
- **Web-workbench:** Deployed an internal Nuxt/Vue, Node.js and Firebase configuration platform for SharePoint and Ibiqs forms, fields and document approval/ review flows, simplifying configuration and reducing development costs.

NexaLab**Feb 2024 – Apr 2024**

Australian software provider serving MSP (Managed Service Provider) company.

Software Developer Intern

- Translated and authored third-party API integration guides with Postman-validated examples, helping increase completed service integrations by 300%.
- Mapped an all-in-one managed service provider dashboard with site maps and wireframes to guide navigation and implementation with Figma.
- Developed a React/Next.js contact-form UI prototype.

ADDITIONAL INFORMATION

I hold a Temporary Graduate visa (subclass 485), valid until May 2028, with full working rights in Australia.