

Samridh Limbu

Software Engineer · Melbourne, AU

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Final-year CS at Deakin (WAM ~87), graduating Jun 2027. Contract engineer for a US health-tech startup (search latency cut to under 200 ms), CTO and sole developer of a live mentorship platform, President of a 190+ member software club. GovHack 2025 winner. Open to SWE internships for summer 2026–27 and graduate roles from mid-2027.

EXPERIENCE

Contract Software Engineer · Independent (remote)

Jul 2026–present

Cut search latency from seconds to under 200 ms on a US health-tech startup's data platform (under NDA). Owned frontend integration, data-source integrations and hardening. Dozens of production deploys. React/TypeScript, FastAPI, PostgreSQL.

Founder · morgue

Aug 2026–present

Opened the waitlist (morgue.clupai.com) for a SaaS that records repeatable video previews of UI animations, keeps the code and exports bundles for coding agents. Built around measured browser limits (16 of 40 WebGL contexts survive); multi-user accounts deployed ahead of launch. Node, Playwright, ffmpeg, Cloudflare R2.

CTO · Hoddle Melbourne

Mar 2026–present

Built hoddle.org, an international-student mentorship platform, as sole developer. 26K+ lines, 51 routes, 23 Postgres tables with RLS. Weighted mentor matching, forums, DMs, real-time notifications. 2nd place, Study Melbourne Leadership 4Impact.

President · Deakin Software Engineering Club (DSEC)

Jun 2025–present

Run a 190+ member club across five committees. Lead developer of the platform the club runs on: public site (dsec.club), member portal and a role-based committee hub where every team manages events, sponsors, finance, tasks and meetings, all on one FastAPI API with an MCP server (github.com/dsec-hub). Hosted T2 2026 workshops and a hackathon.

Software Engineer · MyMor

Aug–Sep 2026

Took a beta rebuild of a startup's university student app to a release candidate: new design system, clubs, events, deals and claim moderation. Improved onboarding, accessibility and the mobile build; built a Firebase emulator stack with a 442-case security-rules test matrix. 400+ commits across five repos. React Native, React, Cloud Functions, Firebase.

Technical Lead & SEO · King Double Glazing (freelance)

Mar–Aug 2026

Led the rebrand and a Next.js 16 rebuild after ruling out WordPress. Desktop Lighthouse: Performance 99, SEO 100. Built an Instant Estimate Tool that shows a price before asking for contact details.

Co-founder · TapCraft Studio

Feb–Oct 2026

Built the headless Shopify + Next.js 16 storefront for 3D-printed NFC keychains, with a real-time 3D colour-variant viewer and headless affiliate tracking. Led the B2C to B2B migration.

Deakin University · campus roles

2025–present

Residential Leader, DeakinRes (Oct 2025–present) · Open Day Ambassador (Aug 2026)

EDUCATION

Deakin University · B. Computer Science (IoT Major)

Jun 2024–Jun 2027 (expected)

WAM ~87 · Vice-Chancellor's International Scholarship (100% tuition) · VCPEP scholar

Capstone: Notifications sub-team lead, Thoth Tech / OnTrack

Relevant: Data Structures & Algorithms · Advanced Algorithms · Concurrent & Distributed Programming · Software Architecture · Secure Backend · Embedded Systems

AWARDS

Winner · GovHack 2025 · GovChat

Dec 2025

RAG search over Australian government datasets, with a 5-factor trust score on every answer (FastAPI, ChromaDB).

PROJECTS

ARIA · multi-agent home-energy brain

github.com/clupai8o0/aria

Next.js · TypeScript · Claude / OpenAI (ReAct) · IBM Carbon

Backtested on the real 13 Feb 2024 AEMO VIC1 price-cap day: ~\$120 day credit, ~\$61 ahead of an unmanaged home. One orchestrator coordinates five ReAct specialists that explain their decisions.

Tempo · workout app with an MCP server

tempo.clupai.com

Next.js · FastAPI · Neon · OAuth · MCP

Lets Claude or ChatGPT read and log workouts. One FastAPI service powers REST, an OAuth-protected MCP server and the Next.js client.

70 passing API tests at the phase checkpoint.

load-balancer · concurrent HTTP load balancer

2025

Go · Prometheus

Implemented round-robin, least-connections and power-of-two-choices (EWMA latency) routing over 21 iterations. Added AIMD concurrency limits, rate limiting, circuit breakers and outlier ejection, with Prometheus metrics.

Kairos · AI-native scheduling app

kairos.clupai.com

Next.js 16 · Drizzle ORM · PostgreSQL · Vercel AI SDK

Rewrote a 7,000+ line Python prototype as a scheduler in daily use: seven pure-function modules, side effects isolated in one file, sub-3 s placement. Oct 2026 rebuild adds a 14-day planner.

R1GPT · NEM connection-approval audit engine

github.com/Aarav261/R1gpt

Next.js 14 · TypeScript (strict) · OpenAI gpt-4o · Zod

Audits grid-connection packages clause by clause against AEMO PSMG v3.0 and NER S5.2. Six deterministic assessors score readiness and trace every finding to its regulatory section. 24/24 cases pass. Built with Aarav.

Lock-In · embedded focus tracker

2026

Arduino C++ · Raspberry Pi 5 · Python asyncio · MQTT · Gemini

Wired Arduino sensors to a Raspberry Pi 5 running a 5-state FSM across eight asyncio tasks, with Gemini vision and an MQTT + SSE dashboard. Subsystems degrade independently. 51 tests, systemd watchdog.

SKILLS

Languages	TypeScript · Python · Go · SQL · C# · C/C++ (embedded)
Frameworks	Next.js · React · Vite · FastAPI · SQLAlchemy · Drizzle ORM · Tailwind CSS · React Three Fiber
Data & infra	PostgreSQL (pgvector) · Redis · Firebase · GCP (Cloud Run, Cloud SQL) · Vercel · Docker · Linux · Prometheus
AI & APIs	MCP servers (OAuth) · Claude / OpenAI / Gemini APIs · RAG (ChromaDB) · Playwright · MQTT · Shopify GraphQL