

Brendan Manseung Choi

AI Engineer | Backend Developer AI/full-stack engineer who takes products from architecture to production.

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EDUCATION

Bachelor of Science (Honours, First Class Honours) in Computer Science University of Auckland | Feb 2022 - Dec 2025 | GPA: 8 / 9

- University of Auckland Postgraduate Honours / PGDip Scholar

PROFESSIONAL EXPERIENCE

Founding Engineer & CTO | Align Health Tech (Healthtech start-up) | Oct 2025 - Jul 2026

- Designed and implemented AI-driven clinical workflow automation for urgent care clinics, building automated patient summarisation and referral generation pipelines to reduce clinician administrative workload
- Built the product as a Next.js / TypeScript application on Azure platforms, gaining production experience across full-stack delivery, cloud deployment, and clinical systems integration
- Secured NZD \$15K Velocity Challenge funding and supported early pilot deployments
- Achieved an average patient satisfaction score of 8/10 across 120 pilot patients at a live Urgent Care Clinic deployment
- **Ongoing pilot at an Urgent Care Clinic** — live deployment with real clinical users

Research Assistant | University of Auckland | Dec 2024 - 2025

- Built an AI-powered course assistant using GPT-based NLP, TTS voice synthesis, and an avatar-based React frontend
- Designed conversational interfaces to replace static course information pages
- Awarded 2nd Place, COMPSCI 399 Capstone Competition (2024)

SELECTED PROJECTS

AIvolve - AI Voice Agent for Job Booking | Dec 2025 - Present

- Built an end-to-end AI voice agent for inbound calls, lead qualification, and automated job booking — VAPI and Twilio for call agents, n8n for workflow automation, GoHighLevel for CRM/scheduling sync, and Stripe for subscriptions
- Sold a live subscription to a real user, with uptake still growing

Plain Rights - Legal Document Simplification (*1st Place out of 12 teams, University of Auckland Legal Tech Hackathon - Student Competition*)

- Built a RAG pipeline translating complex legal contracts into verified plain-English summaries

Honours Dissertation - On-Device Medical Triage with Compact LLMs

- Achieved **70.4% triage accuracy** with **2.4s end-to-end latency** on retail consumer device using an on-device RAG system
- Built with quantized SmolLM2 (135M-360M) and LoRA fine-tuning on 13,825 synthetic triage cases

TECHNICAL SKILLS

- **Coding language:** Python, TypeScript
- **AI / ML:** Experiences in building LLM enabled applications with and without langchain/langgraph, Fine tuning and integrating RAG.
- **Dev:** Typescript - Next.js/Vite, Python- Fast API/Flask/Django
- **Databases:** PostgreSQL on Supabase, MySQL, SQLite
- **Cloud / Infra:** AWS, Azure
- **Tools:** Git, n8n, Cursor, Claude Code, Gemini CLI, OpenAI Codex — routinely used for agentic coding, code review, and feature scaffolding

ADDITIONAL ACHIEVEMENTS

- Published 2 VS Code extensions (LOCAI, File Star) to the Marketplace