

Abraham Ming Moncherry

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EDUCATION

Bachelor of Science (Major in Computing and Software Systems)
The University of Melbourne

Feb 2023 - Jul 2026

- Graduation date July 2026
- Relevant Coursework: Algorithms & Data Structures, Machine Learning, Artificial Intelligence, Linear Algebra

EXPERIENCE

AI Engineer

Apr 2025 - Present

Heya AI, Melbourne, VIC

- Built and deployed **AI voice agents** with **n8n** automation, enabling real-time customer support; defined scope and led delivery with **RMIT Master of Data Science** students as **Product Owner**
- Designed a **call intelligence data platform** that ingests voice-call events (audio, transcripts, metadata), persists them to **PostgreSQL**, and stores large objects in **S3-compatible object storage (MinIO locally/ AWS S3 in prod)**.
- Architect and deliver complete **end-to-end integrations**, covering frontend development (**React, Tailwind CSS**), backend systems (**Express.js, PostgreSQL, MySQL**), and deployment pipelines (**Docker, Traefik, AWS cloud infrastructure, GitHub Actions CI/CD**) to ensure scalability, reliability, and smooth releases.
- Built a client-facing dashboard that surfaces **transcripts, analytics/insights, and billing**, including a secure invoicing workflow with **Stripe integration**..
- Drove measurable savings by replacing a third-party dashboard with an in-house platform (insights + transcripts + invoicing), saving **~AUD \$5,000/year**.

PROJECTS

Mental Health Chatbot

React · Typescript · FastAPI · Docker · PostgreSQL · pgvector · Traefik · AWS · Github Actions

- Built a full-stack RAG (Retrieval-Augmented Generation) chatbot enabling semantic search with OpenAI embeddings (text-embedding-3-small) across 599+ mental health service records.
- Designed an intelligent retrieval and reasoning system using IVFFLAT vector indexing, Serper web search fallback, and GPT-4o integration for context-aware responses with crisis detection via pattern-based triggers.
- Deployed containerized services with Docker Compose and Traefik reverse proxy, implementing HTTPS (Let's Encrypt SSL), JWT authentication with RBAC, and automated CI/CD using GitHub Actions with self-hosted runners on AWS.

CERTIFICATIONS

AWS Certified Cloud Practitioner (CLF-C02)

Amazon Web Services (AWS) — Issued April 2025

[View Credentials](#)

EXTRA-CURRICULAR

Education Officer

April 2024 - Present

MISC (Melbourne Information Security Club), Melbourne, VIC

- Plan, schedule, and manage logistics for cybersecurity workshops, ensuring smooth execution and effective collaboration with guest speakers.
- Research relevant cybersecurity topics, create comprehensive slide presentations, and deliver engaging and informative sessions to attendees.
- Gather participant feedback, stay updated with cybersecurity trends, and regularly update workshop content to maintain its relevance and value.

TECHNICAL SKILLS

- **Languages:** | Python | SQL | Java | Javascript | Typescript | C | C# | R | Prolog | Haskell
- **Framework & Runtime:** Next.js, Node.js, React, Express.js, FastAPI, Tailwind CSS, Unity
- **Cloud & DevOps:** Git, AWS, Docker, MySQL, CI/CD (Github Actions), Traefik, Terraform