

Armadhani Hiro Juni Permana

Indonesian | [Linkedin](#) | +61412251440 | hiroarmadhani@gmail.com

SUMMARY

Computer Science graduate with experience in AI engineering, backend development, and data-driven applications. Experienced in building AI solutions using Python, Gemini API, vector embeddings, FAISS, BigQuery, and Streamlit. Previous backend experience developing Golang REST APIs and database systems. Passionate about developing scalable AI-powered applications.

SKILLS

- Programming : Python, Go, Javascript, SQL
- AI & Data : Pandas, NumPy, Scikit-learn, Gemini API, Vector Embeddings, FAISS, RAG
- Data Engineering : Google BigQuery, PostgreSQL, MySQL
- Frontend : React.js, Streamlit, TailwindCSS, Bootstrap
- Backend : REST API, Go, Gin, Laravel
- Tools : Git, Docker, Postman, Figma

WORK EXPERIENCE

Demografy

Sydney, Australia

AI Engineer Internship

Jun 2026 - Present

- Developed an AI-powered suburb recommendation system combining demographic KPI analysis with Gemini semantic embeddings.
- Built data processing pipelines using Google BigQuery, Pandas, NumPy, and Scikit-learn.
- Implemented hybrid similarity search combining numeric features and text embeddings with FAISS vector indexing.
- Created interactive analytics dashboards using Streamlit for similarity exploration and KPI comparison.
- Developed explainability features including KPI contribution analysis and recommendation insights

Quicksite.guru

Australia

Web Developer Internship

May 2024 - August 2024

- Developed responsive website templates using HTML, CSS, and JavaScript.
- Built reusable UI components focused on accessibility and user experience.
- Collaborated with developers and designers through feedback-driven development cycles.
- Improved website layouts based on design requirements and user needs

Telkom Indonesia

Jakarta, Indonesia

Backend Developer Internship

July 2023 - December 2023

- Developed and maintained a Golang application, focusing on hands-on applications used for monitoring IoT devices.
- Worked with databases and other data stores to store and retrieve data, such as creating, integrating, and managing databases.
- Assisted in the integration of RESTful APIs that interfaced with the applications.
- Debugged and troubleshoot a complex Golang application, reducing the number of issues.
- Created unit tests and improved code coverage.

Informatics Laboratory, Telkom University

Bandung, Indonesia

Laboratory Assistant

July 2022 - June 2023

- Assisted students in Object-Oriented Programming, Data Structures, and Database courses.
- Guided practical sessions using Go, C++, MySQL, and Oracle Database.
- Reviewed student assignments and provided technical mentoring.

PROJECTS

Suburb Look-alike Finder

Python | Gemini API | BigQuery | FAISS | Streamlit

- Built AI-powered recommendation system combining structured KPI data and semantic embeddings.
- Implemented hybrid vector search architecture using FAISS.
- Created explainable similarity ranking dashboard.

PlantPal AI

React.js | Open AI API

- Developed AI-powered plant assistant web application.
- Built responsive UI and AI interaction features.
- Integrated AI-based plant analysis using image and text input.

Payslip Hours Calculator - Automation Web Application

Python | Streamlit | Pandas | PDF Processing

- Developed a web application to automate Australian payslip hour calculations and workday tracking.
- Implemented PDF extraction and data processing logic to calculate total working hours across multiple payslip formats.
- Built custom validation rules for different payroll structures and employment conditions.
- Created an interactive Streamlit dashboard with Excel export functionality.

TRAINING

The Data Analytics Institute (TDAI) — AI Engineering Program

Python | LLM | RAG | Vector Embeddings | AI Applications

- Completed hands-on AI engineering training focused on building practical AI applications using modern AI technologies.
- Developed skills in Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), vector embeddings, and AI application development.
- Built AI solutions using Python, OpenAI/Gemini APIs, LangChain, and vector-based retrieval systems.
- Applied industry practices including Git collaboration, environment management, and AI project deployment.

Certified Practical Golang Back End Developer - Studi DevSecOps

Build Back-End Applications for Beginners with Google Cloud - Dicoding

Certified AI Mastery - Orbit Future Academy

EDUCATION

Telkom University

Bachelor of Computer Science

GPA 3.82 out of 4.0

Bandung, Indonesia

Graduation date : August 2023

MENTORSHIP

Speaker and Facilitator SummerCamp 2022

September 2022

HIMA IF x DQLab

- Delivered data science training sessions covering relational databases and MySQL fundamentals.
- Guided participants through practical database management exercises.