MUHAMMAD RAHARDIAN BAIHAQI

Backend & AI Engineer

Bandung, Indonesia | +62 851-9887-9232 | rahardianbaihaqi03@gmail.com
linkedin.com/in/rahardianbaihaqi | github.com/rhrdianbaihaqi | rhrdianbaihaqi.my.id

PROFILE SUMMARY

Backend & AI Engineer who takes machine learning models and backend services all the way to production — not just development. Experienced in building secure RESTful APIs (FastAPI, NestJS, Express.js), ML and RAG pipelines deployed as API services, IoT integrations, and cross-platform mobile apps (Flutter, Kotlin) published to the Google Play Store. Strong in containerized deployment, CI/CD, Linux server administration, and edge inference. Final-year Informatics Engineering student (GPA 3.83/4.00), national hackathon winner, and Best Capstone awardee (95/100).

PROFESSIONAL EXPERIENCE

Research Intern — Computer Science | Universiti Sains Malaysia, Penang *Jun 2026 – Jul 2026 (on-site)*

- Developed a deep learning model for face-swap (deepfake) detection under faculty supervision at the School of Computer Sciences.
- Curated datasets, ran training and experiments on an **NVIDIA A40 GPU server**, and validated inference on a **Raspberry Pi** for edge deployment.
- Co-authored and documented findings in an academic research paper.

Flutter Mobile Developer (Project-Based) | Hablun *May 2026 – Jul 2026 (remote, part-time)*

- Built an internal mobile app with **two user roles** across 5 modules (Profile, Worship, Communication, Donation, Syirkah) using Flutter and **BLoC** state management.
- Integrated backend and public RESTful APIs; delivered a consistent, responsive UX on both Android and iOS from a single codebase.

Full Stack Developer Intern | PT Makerindo Prima Solusi, Bandung *Mar 2026 – Jun 2026*

- Developed full-stack web applications with **Laravel, Vue.js, and NestJS**, and built REST APIs with **FastAPI** consumed by internal web and mobile teams.
- Implemented **Redis caching** to improve application performance, integrated the **Xendit payment gateway**, and configured Brevo transactional email with sandbox testing.
- Administered Linux servers via SSH, containerized applications with **Docker**, set up **CI/CD pipelines (GitHub Actions)**, and tested all endpoints with Postman.

AI Engineer Intern | PT Makerindo Prima Solusi, Bandung *Jan 2026 – Mar 2026*

- Built machine learning models for **cocoa classification and prediction** supporting agricultural quality assessment and decision-making.
- Developed a **Retrieval-Augmented Generation (RAG)** pipeline on open-source LLMs, improving answer accuracy through prompt engineering.
- Deployed models as RESTful API services with **FastAPI**, integrated them with **IoT devices**, and enabled seamless consumption by mobile and web teams.

AI Engineer Intern | Informatic Digital Services *Jan 2025 – Jun 2025*

- Developed a generative AI chatbot with RAG supporting **text-to-text, speech-to-text, and image-to-text** using pre-trained LLMs (Gemini, Llama, Grok).
- Built AI automation workflows with **n8n and Flowise** to automate data-entry processes.

Android Developer (Project-Based) | LABKOMIF UIN Bandung *Nov 2025 – Dec 2025*

- Developed **Islamic Kids**, a native Kotlin educational app for children with interactive Lottie animations and child-friendly navigation.
- Consumed REST APIs via Retrofit 2/OkHttp, implemented Room Database for offline access, and **published the app to the Google Play Store**, owning the full release process.

PROGRAMS & LEADERSHIP

AI Engineer Cohort — Capstone Team Lead | Pijak × IBM SkillsBuild *Jan 2026 – Jul 2026 (part-time program)*

- Led the capstone team behind **MuterBandung**, an AI-powered travel recommendation platform — awarded **Best Capstone (score: 95/100)**.
- Built the NLP recommendation engine (Flask), backend services (FastAPI), Next.js frontend, and PostgreSQL database, optimized with pre-trained LLMs.

Community Operations Administrator (Contract) | Sabit Community *Oct 2025 – Present (part-time)*

- Managed the “Coaching Clinic” program (offline & online), increasing member participation by **~70%** versus previous periods.
- Mentored members and served as speaker/facilitator in multiple IT workshops.

Member — Intellectual & Reasoning Division | HMIF UIN Bandung *Aug 2024 – Jan 2025*

- Organized intellectual discussion forums and coordinated events including IT FAIR to foster analytical development among students.

EDUCATION

B.Sc. Informatics Engineering — GPA 3.83/4.00 | UIN Sunan Gunung Djati *Sep 2023 – 2027 (expected)*

- Won a **national-level hackathon** among PTKIN universities and received an award at the NICYMS competition.
- Coursework strengths: algorithms & data structures (C++, Java), computer networks, databases, and IoT development.

TECHNICAL SKILLS

- **Backend:** Node.js, Express.js, NestJS, FastAPI, Laravel, REST API, MQTT, Redis, Payment Gateway (Xendit)
- **AI / ML:** TensorFlow, Machine Learning, Deep Learning, RAG, LLMs, Prompt Engineering, NLP, Edge Inference
- **Languages & Mobile:** Python, Golang, JavaScript, TypeScript, Dart, Kotlin, Flutter, React, React Native
- **Data & Infra:** PostgreSQL, Oracle Database, Docker, CI/CD (GitHub Actions), Linux Server, SSH, Git, Postman

CERTIFICATIONS

- Belajar Fundamental Deep Learning — Dicoding (2026) | Membangun Sistem Machine Learning — Dicoding (2026)
- Cisco CCNA: Introduction to Networks (2026) | Cisco Linux Essentials (2025)
- Oracle Database Programming with SQL (2025) | Oracle Database Design (2025) | Belajar Dasar Git dengan GitHub (2025)