

# Fajrul Iman Giat Koentjoro

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## SKILLS & INTERESTS

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**Programming:** Python, TypeScript, JavaScript, C, C++, C#, GO

**AI/ML:** LangChain, LangGraph, Pydantic, TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, LLM APIs

**Backend:** FastAPI, Strawberry GraphQL, SQLAlchemy, Alembic, Redis, PostgreSQL, Weaviate (Vector DB)

**Frontend:** React, Vite, TanStack Router, Zustand, Electron, Shadcn/UI, Tailwind CSS v4, i18n Internationalization

**DevOps/Tools:** Docker, Git, WSL, Postman, npm, pnpm, n8n, Playwright

**Cloud/OS:** AWS (Lambda, S3), Google Cloud Platform, Firebase, Windows, Linux

**Interest:** Bioinformatics, AI Integration, Drug Discovery, Cancer, Genome, RNA Sequencing, Software Engineering

## WORK EXPERIENCE

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### AICORE Network Solution (Coding First)

Banyumas, Indonesia

Software Engineer (Team Lead)

Apr 2025 - Present

- Conducted **technical interviews** for engineering candidates, ensuring team quality and fit.
- Managed **project tickets and schedules** using Jira and spreadsheets, improving workflow transparency.
- Collaborated with leadership and **client stakeholders** to align technical milestones with business objectives.
- **Key Project:** Served as both **lead and hands-on engineer** for *Hisho AI (AI Secretary)*, a client project for TAKE IT CLEVER, Japan. (see Project Experience)

### Bears Cinta Kamu (Coding First)

Banyumas, Indonesia

Backend and Machine Learning Engineer

Nov 2024 - Mar 2025

- Contributed to the development of **web applications** that automated internal and client workflows.
- Assisted in integrating third-party APIs, enabling smooth data exchange across platforms.
- Supported senior engineers in both **frontend (React + TypeScript)** and **backend (Python FastAPI, GraphQL)** development tasks.
- Collaborated directly with visiting Japanese clients, acting as a **technical liaison and cultural bridge** during on-site engagements.
- Gained early exposure to **client-facing software development**, combining hands-on technical work with cross-cultural communication.
- **Key Project:** *Opsguide*, bussiness flow automation web app for PORTAMENT, Japan (see Project Experience).

### Anwar Swan Sejahtera (Coding First)

Banyumas, Indonesia

Programming Instructor

Jun 2024 - Present

- Delivered **1,200+ hours of programming instruction** to students aged 6–18, consistently receiving **positive feedback on teaching effectiveness**.
- Designed and implemented a **progressive curriculum**, transitioning learners from visual platforms (Scratch, [Code.org](#)) to text-based languages (**Python, Lua, C++, C#**).
- **Led a team of 5 instructors**, coordinating curriculum enhancements and adapting content to evolving industry needs.
- Strengthened **communication and cross-cultural skills** through regular virtual collaborations with domestic and international partners, improving English fluency and global networking.

## PROJECT EXPERIENCE

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### TAKE IT CLEVER, Japan

Banyumas, Indonesia

Hisho AI (AI Secretary Platform)

Apr 2025 - Present

- **Led a team of 4 engineers** in the end-to-end development of *Hisho AI*, an AI-powered secretary application.
- **Developed an agentic conversational AI** with memory and task-specific tools, enabling seamless integration with calendars, tasks, and email workflows.
- **Built an LLM-powered task extraction system** that automatically processes incoming emails, improving task capture accuracy by 40%.
- **Implemented Retrieval-Augmented Generation (RAG)** using Weaviate vector database to enhance contextual responses and reduce hallucination.
- **Engineered integrations** with Google Calendar, Gmail, Google Tasks, and Slack using **OAuth2 + Webhooks**, delivering seamless real-time data synchronization across platforms.

- **Built and deployed a scalable backend architecture** using Docker microservices and Redis caching, enabling high performance and multilingual support through a custom i18n implementation.
- **Developed user-facing productivity features** including task management, email management, and a robust notification system.
- **Engineered multi-method authentication flows** (Google OAuth, OTP, Firebase Magic Link) to strengthen **security** and provide a **seamless** user login experience.
- **Designed and implemented full-stack development environments** (React + TypeScript frontend, FastAPI + GraphQL backend), laying the foundation for **scalable** feature delivery and **faster team onboarding**.

#### PORTAMENT, Japan

*Opsguide (Business Flow Automation)*

**Banyumas, Indonesia**

*Nov 2024 - Mar 2025*

- Assisted in building and enhancing backend services with **Python (FastAPI) and GraphQL**.
- Contributed to frontend improvements in **React + TypeScript**, supporting usability and workflow efficiency.
- Helped implement **third-party service integrations** to extend platform functionality.
- Worked closely with senior engineers and the client team to deliver features on time and aligned with Japanese business requirements.

#### Mind Technology X Universitas Jenderal Soedirman

*LIFE (Leucocyte Identifier from Everywhere)*

**Banyumas, Indonesia**

*Aug 2022 - Dec 2022*

- Designed and implemented an **image segmentation pipeline** (thresholding + active contour) using scikit-image, producing a dataset enriched with texture and morphology features.
- Developed an **SVM-based classification model** in scikit-learn, achieving **85% training accuracy** and **80% accuracy in validation**.
- Built a fully functional **Android mobile app** in just 2.5 months (from zero prior Android experience) using Java + Android Studio.
- Deployed ML models **locally with ChaquoPy**, ensuring offline inference without reliance on external APIs.
- Delivered a working prototype in 3 months, demonstrating the potential of **mobile-based leukocyte identification** for use in resource-limited environments.

#### OTHER ACTIVITY

##### Ehime University (Prof. Masashi Yukawa Lab)

*Online Internship (RNA Seq Analysis)*

**Online, Indonesia**

*Dec 2024 - Present*

- Gained foundational knowledge in **DNA and RNA sequencing**: biological functions, expression processes, and analysis workflows.
- Learned to handle **RNA-Seq data (FASTQ format)** and practiced basic processing pipelines.
- Acquired hands-on experience with **AWS EC2** for computational tasks in bioinformatics.
- Drafted a preliminary **research proposal** on applying **machine learning to cancer early diagnosis** from blood samples.

##### Nara Institute of Science and Technology

*Student Internship (Shigehiko Kanaya Lab)*

**Nara, Japan**

*Jan 2023 - Feb 2023*

- Conducted a **Project-Based Learning (PBL) initiative** on computational drug discovery, achieving **90% accuracy with a Random Forest model**.
- Successfully completed and presented a **graph clustering task**, being the only intern to reach this milestone.
- Demonstrated strong **adaptability and cross-cultural communication skills** in an international research environment.

#### EDUCATION

##### Universitas Jenderal Soedirman

*Bachelor of Electrical Engineering (Computer and Information Engineering)*

**Banyumas, Indonesia**

*Graduation Date: Aug 2023*

##### Nara Institute of Science and Technology (NAIST)

*Non-degree (Student Internship)*

**Nara, Japan**

#### REFREE CONTACT

**Refree's Name:** Alvin Mariogani

**Position and Institution:** CEO of Anwar Swan Sejahtera, CEO of AICORE NS and Directure of Bears Cinta Kamu

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