AGUSTAR ALFONSO

Full-stack & AI Engineer
Cikarang, West Java, Indonesia | alfonsoagustar@gmail.com
Portfolio: agustaralfonso.vercel.app | LinkedIn: linkedin.com/in/agustaralfonso | GitHub: github.com/alufonso

Summary

Full-stack & AI Engineer who builds AI-powered products end to end, from AI and backend services to web and mobile apps. Currently shipping real-time speech AI, LLM features and full-stack products with Python, TypeScript, FastAPI, Next.js, React Native and Flutter on Google Cloud. Owns features from spec to release with code review and automated QA. Informatics Engineering graduate (GPA 3.76) with a published IndoBERT NLP thesis.

Technical Skills

Programming Languages: Python, TypeScript, JavaScript, HTML
Frameworks & Libraries: FastAPI, Next.js, React, React Native, Flutter, Hono, Node.js, Laravel
AI & Machine Learning: LLM Applications, Generative AI, LangGraph, LangChain, Prompt Engineering, Computer Vision, Machine Learning, Deep Learning, Speech AI (Faster-Whisper, vLLM)
Databases: PostgreSQL, MongoDB, Supabase, Cloudflare D1
Cloud & DevOps: Google Cloud Platform (Cloud Run), Amazon Web Services (AWS), Cloudflare Workers, Docker
Real-time & Tools: LiveKit, WebSocket, PostHog, Spec-Driven Development

Experience

Artificial Intelligence Engineer (Apprenticeship)
Global Collabo Tech | Oct 2026 - Present

- Built AI speech features: live transcription and translation, telling apart who is speaking when candidates share one microphone, and filtering out text the speech model invents from background noise.
- Used an LLM to match speakers to names and correct misheard names in group interview transcripts, and to generate interview summaries.
- Built benchmarks with real recordings to measure and improve speaker-identification accuracy.
- Built group interviews end to end: multi-candidate sessions, reusable interview setups, screen sharing, session timers and server-side recording.
- Built a live dashboard for interviewers showing candidate body-language metrics, plus post-interview body-language and conversation reports.
- Shipped across the frontend (Next.js, React) and backend (Python, FastAPI, MongoDB), with real-time video over LiveKit and self-hosted AI models (Faster-Whisper, Qwen via vLLM).

Full-stack & AI Engineer (Contract)
Petak-app | Oct 2026 - Present

- Built features end to end across the mobile app (React Native/Expo), website (Cloudflare Pages + Workers, D1), internal tools (Node.js on Google Cloud Run) and backend (TypeScript, Hono, PostgreSQL).
- Shaped how the AI assistants behave in conversation, including personalisation and onboarding.
- Built monitoring for AI cost, quality and usage, including cost checks against provider invoices.
- Built secure phone-based sign-in with verification and cost controls.
- Wrote specs and shipped through code review and automated QA.

Full-stack & AI Engineer (Contract)
Haloop.AI | Sep 2026 - Nov 2026

- Built AI features on the assistant's LangGraph runtime, including turning imported WhatsApp chats into saved moments and reminders, with better accuracy, reliability and privacy.
- Built features end to end across the mobile app (Flutter), website and admin dashboard (Next.js), and backend services (TypeScript on Google Cloud Run, Supabase/PostgreSQL).
- Built subscriptions, in-app purchases, a shared credits system and configurable referral rewards.
- Built campaign sign-up and attribution tracking that follows a user from the website to the mobile app.

- Built analytics and user tracking with PostHog, plus relationship-graph and contact management features.

Student Intern

PT. Bank Riau Kepri Syariah (Perseroda) | *Feb 2025 - Apr 2025*

- Developed a web-based CSR (Corporate Social Responsibility) fund recording application using Laravel.
- Helped the company track and monitor CSR fund realization monthly and annually, making reporting more organized and easier to manage.

Laboratory Assistant (Part-time)

Universitas Islam Negeri Sultan Syarif Kasim Riau | *Aug 2024 - Jul 2025*

- Guided students through laboratory practicums, helping them understand and apply course materials in a hands-on setting.
- Assisted lecturers in planning and managing laboratory-based academic activities to ensure smooth and effective sessions.

Projects

CVSight - AI CV Reviewer & ATS CV Generator

Personal Project | *Python, FastAPI, React, Vite, Docker, Google Gemini* | *github.com/alufonso/cv-reviewer-agent*

- Built an AI tool that analyses a CV against a job description and generates a tailored, ATS-friendly CV in PDF or DOCX.
- Implemented Master Profile extraction from uploaded CVs (PDF/DOCX) into a structured, locally stored profile.
- Added fit analysis with actionable suggestions that preview fixes without changing the base profile.

JankenpoVision - Real-Time Hand Gesture Rock-Paper-Scissors

Personal Project | *JavaScript, Computer Vision, MediaPipe Hands, Firebase* | *jankenpo.vercel.app*

- Built a web-based rock-paper-scissors game with real-time hand gesture recognition using computer vision (MediaPipe Hands), supporting both live webcam input and image upload.
- Implemented a real-time multiplayer mode powered by Firebase (room codes, shareable links, live dual gesture detection) alongside a single-player mode against AI.

Publication

"An IndoBERT-based Framework for Emotion Classification in Indonesian Song Lyrics", SINTECHCOM: Science, Technology and Communication Journal, Jun 2026. Fine-tuned IndoBERT on 1,025 labeled lyrics (4 emotions); best model reached 75.73% accuracy and 75.85% macro-F1. DOI: 10.59190/stc.v6i3.372

Certifications

- Belajar Dasar Cloud dan Gen AI di AWS - Dicoding Indonesia (Aug 2026)
- Spec-Driven Development dengan Kiro - Dicoding Indonesia (Aug 2026)
- Belajar Machine Learning untuk Pemula - Dicoding Indonesia (Jul 2026)
- Memulai Pemrograman dengan Python - Dicoding Indonesia (Jul 2026)
- Prompt Engineering untuk Software Developer - Dicoding Indonesia (Jul 2026)
- Belajar Dasar AI - Dicoding Indonesia (Jul 2026)
- Legacy Responsive Web Design V8 - freeCodeCamp (Oct 2025)

Education

Universitas Islam Negeri Sultan Syarif Kasim Riau

Bachelor of Engineering, Informatics Engineering | Aug 2022 - Sep 2026 | GPA 3.76/4.00