Anas Fauzi

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PROFESSIONAL SUMMARY

Software and automation engineer with 5 years of experience in Python, Node.js, and TypeScript. Experienced in building distributed pipelines, Stripe payment systems, and production AI agents. Comfortable working asynchronously in remote international teams and owning features end to end, from database design and unit testing to GCP deployment.

TECHNICAL SKILLS

- Languages: Python, TypeScript, JavaScript, PHP, SQL, HTML, CSS, Go/Kotlin (familiar)
- Backend Frameworks: Flask, Express.js, Node.js, Celery, REST APIs, Prisma (ORM), Auth.js, Zod, Vitest
- Frontend & Mobile: React, Next.js, Tailwind CSS, Vue.js, Android SDK, Godot Engine
- AI & Automation: Model Context Protocol (MCP), LangChain, RAG Pipelines, LLM API Integration (OpenAI, DeepSeek, Groq, Gemini, OpenRouter), AI-assisted development (Claude Code, Codex), n8n, Make.com, Selenium, Playwright, Crawl4AI, BeautifulSoup
- Databases & Queues: PostgreSQL, MongoDB (incl. Atlas Vector Search), MySQL, Qdrant, Redis, RabbitMQ
- Integrations & CRM: Stripe, Twilio, Telegram Bot API, WhatsApp Business (Cloud) API, Facebook Graph API, HubSpot CRM
- DevOps & Cloud: Docker, Docker Compose, Linux VPS, Nginx, Caddy, Cloudflare, Google Cloud Platform (Cloud Run), Azure, Git, CI/CD, systemd

PROFESSIONAL EXPERIENCE

Web Developer **Apr 2022 – Sep 2026**

Jejo Digital • Remote, Singapore

- Architected backend services and REST APIs in Python, Node.js, and TypeScript on MongoDB, PostgreSQL, and MySQL, with Celery/RabbitMQ pipelines handling asynchronous data ingestion and external integrations.
- Published an open-source MCP server in TypeScript that lets autonomous AI agents manage projects, schedules, orders, and wallet operations through automated JWT authentication.
- Automated document validation with LangChain and RAG pipelines, and connected LLMs to WhatsApp and internal tools via n8n, cutting manual verification time by 70%.
- Built payment infrastructure on Stripe (webhooks, signature verification, wallet billing, dynamic fees, rebates, automated invoices) and automated financial reconciliation against banking reports, eliminating manual accounting friction for 100+ weekly transactions.
- Built web scraping and browser automation (Selenium, Playwright, Crawl4AI, BeautifulSoup, custom Chrome Extensions) with rotating proxies and automatic retries for reliable large-scale data collection (100k+ records/month).
- Deployed and operated containerized multi-service stacks on Docker and GCP, owning DNS, SSL, Nginx reverse proxies, and production log aggregation.

Web Developer **Nov 2021 – Apr 2022**

Alfasa • Kudus, Indonesia

- Migrated a legacy PostgreSQL desktop POS system to a web architecture using Python, Flask, and MongoDB.
- Built custom web functionality, database schemas, and REST endpoints in PHP, JavaScript, and WordPress.
- Ran database migrations, data normalization, and ongoing backend bug fixes.
- Maintained internal networking, workstation, and secure file-sharing infrastructure.

Android Developer Internship **Jan 2020 – Mar 2020**

Balai Pengembangan Multimedia Pendidikan dan Kebudayaan • Semarang, Indonesia

- Built a native Android sign language dictionary app (Kotlin, Firebase Realtime Database) based on the Sistem Isyarat Bahasa Indonesia standard.
- Built a 2D educational mobile game in the Godot Engine for the Kihajar Mobile Application competition.

PROJECTS

FSI Lead Automation & WhatsApp AI Agent PT French Solar Industry

Automation Engineer • n8n, WhatsApp Business (Cloud) API, HubSpot CRM, MongoDB Atlas Vector Search, Python, LLM Agents / RAG

Led the design and build of an AI-driven lead-to-quote automation pipeline for PT French Solar Industry, replacing a fully manual Google Ads lead-handling process.

- Built an end-to-end flow from website lead capture through a WhatsApp AI agent, HubSpot CRM sync, solar quote calculation, and site-visit booking.
- Designed the WhatsApp side as a true LLM agent handling both warm leads and cold contacts, with a sales approval gate before any quote reaches a client.
- Built a RAG knowledge base over product brochures, spec sheets, and web pages (MongoDB Atlas Vector Search) so the agent can answer product questions accurately.
- Delivered the full automation architecture, including the official WhatsApp Business API integration and the quote-calculation engine.

MNX Money Manager

Personal finance tracker • Next.js 16, React 19, TypeScript, MongoDB, Telegram Bot API, LLMs Integration

A Telegram chatbot that turns Indonesian texts, receipt photos, and voice notes into a full personal finance dashboard: budgets, reports, CSV export, and scheduled recaps. About 18k lines of TypeScript, running in production.

- Built a two-stage parser that reads Indonesian shorthand ("kopi 25rb", "gajian 8,5jt") instantly at zero cost, falling back to an LLM chain (Groq, Gemini, OpenRouter) only when the rules can't resolve it.
- Kept the AI layer resilient under failure with circuit breakers, rate-limit backoff, and automatic re-routing between providers.
- Shipped multi-user accounts with HMAC-signed sessions, Telegram pairing, wallet auto-matching, and an admin panel for runtime AI keys.

Self-hosted the stack behind nginx and Cloudflare TLS, with systemd timers delivering scheduled recaps and 13 automated test suites running with no live services required.

SchooX SD Islam Kauman Pati

School Management System • Next.js 15, React 19, TypeScript, PostgreSQL 16, Prisma 7, Auth.js v5, Tailwind CSS v4, Zod, Vitest, Docker Compose

School management platform with separate portals for admins, teachers, students, and parents. Built end to end: 53 database tables, 43 pages, about 17k lines of code, and 45 integration tests.

- Built multi-school administration, scheduling, and attendance (RBAC across 7 roles, timetables, teacher substitution, leave approval, device check-in API) with WhatsApp alerts to parents.
- Built grading aligned to Indonesia's Kurikulum Merdeka with a report card approval flow, a computer-based exam system with auto-grading, a finance module (invoices, payments, arrears), and a public admissions portal.
- Designed a server-only service layer enforcing validation, permission checks, and audit logging, keeping all 43 pages and API routes off direct database access, with framework-free domain logic for fast testing.
- Deployed via Docker Compose (app, worker, PostgreSQL, Redis, Caddy) with a job-queue worker for WhatsApp notifications and 45 Vitest integration tests across every module.

Academic Projects: Healthcare Imaging 2020 – 2021

Backend & Machine Learning Developer • Python, Flask, OpenCV, TensorFlow, Scikit-Image

Two applications for medical image analysis: coronary heart disease risk assessment from facial images, and automated cancer region-of-interest detection in ultrasound images.

- Built and deployed AI For Heart (aiforheart.id) as a containerized Google Cloud Run microservice, cutting inference time 25% after refactoring the image pipeline.
- Built Codion (codion.herokuapp.com), porting legacy MATLAB detection algorithms to a Python/OpenCV web pipeline with a custom UI.

EDUCATION

Bachelor of Education in Informatics and Computer Engineering Education **Sep 2017 – Oct 2021**
Universitas Negeri Semarang • Semarang, Indonesia

- Graduated Cum Laude (GPA: 3.54 / 4.00)

ACHIEVEMENTS

- Finalist & Research Grantee: 34th National Student Scientific Week (PIMNAS), Program Kreativitas Mahasiswa (PKM), Ministry of Education, Culture, Research, and Technology (2021)
- Principal Grantee: Novice Researcher Program (Program Peneliti Pemula), secured institutional research funding of IDR 10M+, DIPA FT UNNES (2021)

PUBLICATIONS

- Jurnal Ilmu Komputer dan Informasi (2024): "Automated Ultrasound Object Segmentation Using Combinatorial Active Contour Method" (DOI: 10.21609/jiki.v17i2.1298)
- AIP Conference Proceedings (2023): "Web-based Application System for Cancerous Object Detection in Ultrasound Images" (DOI: 10.1063/5.0141519)
- Jurnal Informatika Polinema (2022): "Simplifikasi Model CV Berpadu Operasi Morfologi untuk Deteksi Objek Kanker pada Citra USG" (DOI: 10.33795/jip.v8i2.923)
- PT Insan Cendekia Mandiri Group (2023): "Pemodelan Active Contour untuk Segmentasi Kanker pada Citra Ultrasonografi" (ISBN: 978-623-179-383-6)

LANGUAGES

- English: Professional Working Proficiency (written technical communication, async collaboration, documentation)
- Indonesian: Native / Bilingual Proficiency