

FAISHAL WAHIDUDDIN

Chief Technology Officer · Hands-on AI Engineering Leader

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EXECUTIVE SUMMARY

Hands-on AI engineering leader with 10+ years building software and 5+ years as Chief Technology Officer across construction-tech, mental health, and SaaS, remote-first since 2023. Built and led engineering teams from first hire to 20+, won Wool's first enterprise customer (a state-owned enterprise), and most recently shipped AutoKon's production AI platform solo — VLM-verified photo evidence released **billions of rupiah** in contractor payments across **thousands of housing units**. Fulbright Scholar, M.S. Computer Science (UCF, GPA 3.90).

TECHNICAL SKILLS

- **AI & LLM:** Anthropic Claude, OpenAI, Gemini, multimodal VLM, RAG, Pinecone, LLM-as-judge evaluation (Arize AX), agent tracing (OpenInference), prompt engineering, guardrails, n8n, Botpress
- **Languages & Frameworks:** TypeScript, Python, SQL, PHP · Next.js, React, Node.js, NestJS, Express, FastAPI, Laravel · REST, GraphQL
- **Cloud & Data:** AWS (Lambda, DynamoDB, RDS, S3, API Gateway), GCP, Azure, Vercel, Supabase (PostgreSQL, RLS), Docker, GitHub Actions, Prometheus/Grafana, serverless, event-driven architecture
- **Security:** End-to-end encryption, OAuth 2.0, JWT, RBAC, audit logging, data protection
- **Leadership:** Engineering management, hiring and team scaling, product roadmaps, cross-functional delivery, Agile/Scrum (CSM), async-first remote ops · English (fluent), Bahasa Indonesia (native)

PROFESSIONAL EXPERIENCE

AutoKon Pte. Ltd. — B2B Construction-Tech

January 2025 – July 2026

Chief Technology Officer · Sole engineer

Remote

- Built and shipped a production B2B platform solo (Next.js 16, TypeScript, Supabase) that released contractor payments only after field photos verified construction progress for multiple property developers: **thousands of housing units**, 3 time zones, **billions of rupiah** disbursed.
- Built a VLM photo-verification pipeline (Claude Opus Vision, Pinecone retrieval) for progress and defect detection, gated by LLM-as-judge evaluators (Arize AX, GitHub Actions) calibrated to $\kappa \geq 0.80$ against a human golden set before any verdict can trigger payment.
- Automated field-to-payment operations with **111 n8n workflows (49 in production)** across n8n Cloud and self-hosted stacks, with version-controlled workflows and staging-to-production promotion guardrails.
- Designed a 5-role, 2-step payment approval chain (progress certification, then handover sign-off) that sharply shortened contractor payment approvals.
- Shipped chat-first evidence capture over WhatsApp and Telegram (Botpress, identity-gated AI agents, OpenInference tracing); ran infrastructure on Vercel, Supabase, and a 3-VPS WireGuard mesh.
- Delivered the platform behind AutoKon's digital construction-supervision partnership with **Real Estat Indonesia (REI)**, the national property developers' association — covered by 8 media outlets including Kompas, Detik, and Bisnis Indonesia (Oct 2025).

Wool — B2B Mental Health Platform

July 2023 – December 2024

Chief Technology Officer

Remote

- Built and led a **10+ cross-functional team** (engineering, product, clinical advisory) to deliver the Dynamic Mental Health Point (DMHP) AI-analytics system, winning the company's first enterprise customer, a state-owned enterprise (BUMN).
- Launched a web-based Enneagram psychotest platform, cutting assessment cycle time **90%** versus the paper process it replaced.
- Built the secure cloud platform for protected patient data and real-time clinician–patient sessions: end-to-end encrypted messaging, RBAC, and audit logging (reviewed by a certified professional), plus AI sentiment analysis.

DoCheck — SaaS Productivity Platform

May 2021 – July 2023

Chief Technology Officer

Bandung, Indonesia

- Built and led a **20+ engineering and cross-functional team**, raising delivery velocity **30%** through Agile execution, CI/CD pipeline upgrades, and AI-assisted sprint planning and code review.
- Increased user task completion **25%** by launching AI-powered task generation and prioritization.
- Cut infrastructure cost **20%** within one quarter via AWS serverless migration (Lambda, DynamoDB, RDS).

University of Central Florida

August 2019 – May 2021

Graduate Research Assistant

Orlando, FL, USA

- Proposed and evaluated PMO Sync, a mechanism for atomic durability and crash consistency on persistent memory objects, under advisor Professor Yan Solihin; published as M.S. thesis (Spring 2021).
- Measured performance and data-persistence trade-offs of atomic-transaction designs on non-volatile memory (Intel Optane).

Universitas Padjadjaran

2016 – 2019

Teaching Assistant · Concurrent: Software Engineer (Freelance)

Bandung, Indonesia

- Assisted 7 undergraduate Informatics courses: Operating Systems, Object-Oriented Programming, Database Systems, Artificial Intelligence, File Systems, User Interface Design, and Programming & Algorithms.
- Built freelance software for enterprise clients, including a performance-monitoring dashboard for Bank Mandiri's Office Control Tower that tracked division goals and workforce performance for management review (2017).
- Lead developer of Telkom Indonesia's national monitoring system, demonstrated to Indonesia's Minister of Transportation, Ignatius Jonan.

Microsoft

September 2014 – June 2016

Microsoft Student Partner

Bandung, Indonesia

- Mentored **100+ student developers** in mobile development, with 30+ apps published to the marketplace through the program.
- Ran technical workshops to support Microsoft platform adoption across the Universitas Padjadjaran campus, and promoted Microsoft Virtual Academy learning programs.

EDUCATION

University of Central Florida

2019 – 2021

Master of Science in Computer Science — GPA: 3.90/4.00

Orlando, FL

- **Fulbright Scholar**. Specialized in Computer Architecture and High-Performance Computing.
- Active in **AI@UCF (Artificial Intelligence Group)** — applied AI/ML projects in UCF's student AI research community.
- **President, PERMIAS Central Florida** (Indonesian Student Association), 2021–2022.

Universitas Padjadjaran

2012 – 2016

Bachelor of Science in Informatics — GPA: 3.88/4.00 (Top 5%)

Bandung, Indonesia

- **President of Computer Science Student Association** (2014); nominated for **Most Outstanding Student** (university level, 2015); academic merit scholarship recipient.
- Won Ministry of Education student-research funding (PKM, 2013) for CERDIKIA, a digital-mirror app showcasing Indonesian culture; built an augmented-reality app for tourism and cultural preservation (PKM, 2014).
- Finalist, Bandung Juara 2014 city app competition (Bandung Information Center smart-city app) and Digital Economy Initiative Competition (2016).

CERTIFICATIONS & AWARDS

- **Gemini Certified Educator** — Google, 2026 | Credential ID: 172028089
- **Certified ScrumMaster (CSM)** — Scrum Alliance, 2021 | Credential ID: 1380153
- **AWS Certified Cloud Practitioner** — Amazon Web Services, 2021 | Credential ID: 6X9LLBKBKBV1Q25B
- **Fulbright Master Degree Scholarship** — U.S. Department of State, 2019–2021

PUBLICATIONS

- *Finding Facial Expression Patterns on Videos based on Smile and Eyes-Open Confidence Values* — co-author · IJAIA Vol. 12 No. 5, Sept 2021
- *Evaluating PMO Sync Implementation for Persistent Memory Object* — M.S. thesis, University of Central Florida (advisor: Dr. Yan Solihin), Spring 2021
- *An Integrated Framework to Investigate Influencing Factors of User's Engagements on Instagram Contents* — co-author · ICIC 2018, IEEE
- *Using the Indonesian Electronic ID Card (e-KTP) as an Alternative Authentication Method* — first author · Jurnal Informatika, Universitas Padjadjaran, 2016 (in Indonesian)

SPEAKING & COMMUNITY

- **Mentor, Judge & Speaker** — IFEST, Universitas Padjadjaran — Business Plan Competition finalist mentor (2026); Technopreneur competition judge (2025); speaker, “Exploring Career Paths in Technology” (2024)
- **Workshop Speaker** — “Leak Detection Technology Using AI Approach” — Institut Teknologi Bandung (ITB), 2024