KHAIRAN NOOR FADHLILLAH

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PROFESSIONAL SUMMARY

Software Engineer specializing in scalable full-stack web architectures, high-concurrency Golang microservices, and distributed cloud systems. Proven track record includes architecting production web platforms and a hybrid NLP engine achieving 94.5% classification accuracy while slashing cloud LLM token costs by 63% at PT Vinix Seven Aurum. Expert in designing low-latency RESTful APIs, relational PostgreSQL databases, and client-side WebAssembly (Wasm) edge architectures with automated Docker CI/CD deployment. Certified in Web Programming by Harvard University.

TECHNICAL SKILLS

Languages & Core: Go (Golang), Python, TypeScript, JavaScript, SQL (PostgreSQL, SQLite)

Backend & Distributed: Microservices Architecture, RESTful APIs, Django, Next.js, React, FastAPI, Concurrency, Database Indexing, Supabase

AI Systems & Integration: RAG Architecture, Agentic AI, NLP (Tokenization, TF-IDF, N-grams), Scikit-Learn, Knowledge Graphs, Vector Search

DevOps & Cloud: Docker, Multi-Stage CI/CD Pipelines, Cloud (OCI), WebAssembly (Wasm), Git, Linux, Postman

PROFESSIONAL EXPERIENCE

PT Vinix Seven Aurum (VINIX7) — *Python & AI Software Engineering Intern* **Feb 2026 – Jun 2026**

- Architected a production Hybrid NLP Engine combining Scikit-Learn (TF-IDF vectorization, N-grams) and Gemini API for the Oneformind SaaS platform, classifying unstructured PDF documents across 40 Career Archetypes with 94.5% end-to-end accuracy.
- Engineered an intelligent Out-of-Distribution (OOD) routing gate with a 15% confidence threshold, cutting commercial cloud LLM token costs by 63% (from $5.00 down to $1.25 per 1,000 documents).
- Serialized and deployed lightweight local ML models achieving ultra-low 3ms inference latency and 600 requests/second peak throughput, accelerating throughput by 300x compared to cloud API round trips.

Badan Eksekutif Mahasiswa (BEM) — *Full-Stack Web Developer* **Jan 2025 – Jan 2026**

- Architected and deployed BEMfinity, the official one-stop web portal centralizing 15+ executive work programs, news updates, and multimedia event galleries for the university student body.
- Engineered responsive full-stack interfaces and optimized relational PostgreSQL database queries (indexing, subqueries), achieving sub-200ms page load speeds and seamless mobile responsiveness.

FEATURED TECHNICAL PROJECTS

Tranvas — *Next.js, TypeScript, Go (Golang), PostgreSQL, Docker* **[Live Demo ↗]**

- Architected a full-stack personal productivity OS integrating atomic habit tracking (streak heatmaps), smart finance budgeting, and priority-based task scheduling.
- Engineered high-concurrency backend microservices in Golang with low-latency RESTful APIs and connection pooling, achieving sub-50ms query response times.
- Containerized microservices using Docker and implemented automated CI/CD deployment pipelines, streamlining multi-stage builds and zero-downtime server deployments.

Browser-Native WASM Media Suite — *Next.js, WebAssembly (Wasm), FFmpeg, PDF.js* **[Portfolio Suite ↗]**

- Architected an end-to-end privacy-first suite of 4 browser utility platforms (HandleMyFile, SolveMyMedia, HelpMyIMG, CreateMy-QR) executing PDF OCR and media transcoding.
- Engineered client-side document pipelines using PDF.js and FFmpeg.wasm to execute OCR and media transcoding 100% offline inside browser threads.
- Eliminated cloud infrastructure processing costs by 100% and reduced data transit latency to zero by offloading compute-heavy workloads directly to browser threads via WebAssembly.

EDUCATION

Ary Ginanjar University — Jakarta, Indonesia **Aug 2023 – Present**

Bachelor of Science in Information Systems **GPA: 3.71 / 4.00**

PROFESSIONAL CERTIFICATIONS

- **CS50's Web Programming with Python and JavaScript** — Harvard University
- **Software Engineer Certificate** — HackerRank
- **Oracle Cloud Infrastructure Certified Architect Associate** — Oracle