

TAUFIK HIDAYAT

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PROFILE

A full-stack Software & AI Engineer with a Master's degree in Computer Science (Universitas Brawijaya) and hands-on experience building production systems across the stack: RESTful APIs, web applications, ERP modules, mobile apps, AI agent platforms, and LLM orchestration. Experienced delivering enterprise and government platforms end to end, from system design and cloud infrastructure to deployment. Author of 3 international conference papers in applied AI.

EDUCATIONAL BACKGROUND

UNIVERSITAS BRAWIJAYA

Aug 2024 – Aug 2026

Master's Degree in Computer Science

- GPA: 3.90 out 4.0 (graduated in 2 years)
- Fast-Track Program Student
- Thesis: Comparative Analysis of Multimodal Fusion Strategies of Facial Images and Facial Landmarks with Feature Decomposition Based on FACS and Blendshape for Facial Expression Recognition

UNIVERSITAS BRAWIJAYA

Aug 2021 - Jan 2025

Bachelor's Degree in Information Technology Education

- GPA: 3.83 out of 4.0 (graduated in 3.5 years)
- Practicum Assistant at FILKOM UB
- Awardee MSIB Batch 6 at PT Indi Teknokreasi Internasional as Full Stack Web Developer
- Thesis: Development of Block-Based Programming Learning Media to Help Students Learn Programming (Case Study: Basic PHP Learning in Web Programming Practicum at Faculty of Computer Science Brawijaya University)

WORK EXPERIENCE

PT. TEKNOLOGIC AKSARA NUSANTARA

Jul 2026 – Present

Full Stack Engineer – Full-time

- Develop the DitDal SuperApp for Komdigi (Ministry of Communication and Digital Affairs), consolidating 11 legacy spectrum monitoring applications into one platform
- Author the SRS, TRD, and ADRs, then build the Master Data module: 20+ entities as the shared reference layer for all 4 modules
- Deliver features via an AI-assisted Claude Code workflow: spec, design, and handoff stages tracked in Git and Plane
- Collaborate within a 10+ person team of business analysts, designers, QA, and DevOps engineers, from requirement gathering to deployment

PT. GRINVIRO BIOTEKNO INDONESIA

Mar 2025 – Jul 2026

AI Engineer - Full-time

Feb 2026 – Jul 2026

- Handled platform architecture, technical direction, and cloud and server infrastructure, including microservices design, RAG, MCP, and orchestration of 10+ LLMs across multiple model families
- Built and maintained the AI agent platform for business process automation, including image and video generation, deployed across 10+ group departments
- Integrated AI agent capabilities into 10+ internal and external enterprise platforms, including ERP, DIAC-V (IoT monitoring), Portal Recruitment, the company website, and industrial automation systems

Software Engineer - Full-time

Mar 2025 – Feb 2026

- Developed and implemented an ERP system covering 10 departmental modules (CRM, SCM, HR, etc.), including database integrations, RESTful APIs, and stored procedures
- Integrated ERP system with Lark Suite (authentication, Base, and Drive) for cross-departmental data management
- Contributed to architectural decisions, conducted code reviews, and translated business requirements into technical specifications

PT. CODELAMP AKSELERASI DIGITAL

May 2025 – May 2026

Full Stack Developer - Freelance, Remote

- Developed and maintained the Codelamp Learning Management System, serving 5,000+ active students across 32+ online courses, live courses, webinars, and mentoring
- Implemented core platform features including course management, student enrollment, and progress tracking; platform holds a 4.9/5 user rating
- Served as an instructor for an online course with a perfect 5/5 rating

FACULTY OF COMPUTER SCIENCE (FILKOM UB)

Sep 2022 – Dec 2024

Practicum Assistant - Part-time

- Taught practicum sessions across 7 courses: Basic Programming, OOP, Data Structures, UI Design, Database & SQL, Web Programming, and Digital Instructional Environment
- Managed classes of 20-40 students per session, instructing 350+ students in total across all courses
- Achieved 90-100% student understanding rates on end-of-practicum assessments

PT. RANTANGIN DIGITAL INDONESIA

Jul 2024 – Oct 2024

Full Stack Mobile Developer – Intern, Remote

- Built and maintained the Laravel REST APIs powering the Rantangin mobile app
- Designed and developed the Rantangin cross-platform mobile app with Flutter
- Published on Google Play Store, achieving a 5.0 star rating and 100+ downloads

CANDIDATE COLLEGE

Jun 2024 – Sep 2024

Backend Developer – Intern, Remote

- Developed and maintained the backend REST APIs for the official Candidate College website
- Integrated backend services with the frontend team on feature delivery
- Built backend architecture using Laravel with clean and maintainable code across all modules

PT. INDI TEKNOKREASI INTERNASIONAL

Feb 2024 – Jun 2024

Full Stack Web Developer – Intern

- Developed a SaaS product end-to-end using Laravel, Next.js, and other modern frameworks
- Built web systems for the company's clients as part of its IT consulting services
- Collaborated with product and mobile developers to ship web-based solutions

DIGITAL CREATIVE MASJID RADEN PATAH UB

Sep 2023 – Jan 2024

IT Developer - Part-time

- Developed a new website for Masjid Raden Patah UB using the Laravel framework
- Collaborated with team to identify technical needs & integrate new features per design guidelines

ORGANIZATIONAL EXPERIENCE

KBMSI FILKOM UB

Feb 2023 – Dec 2024

Secretary

- Handled administrative operations and maintained the organization's inventory
- Maintained organizational documents and archives
- Managed the submission of 100+ work program administration documents, including proposals, accountability reports, final activity reports, letters, etc.

POROS ORGANIZATION OF OPEN SOURCE FILKOM UB

Mar 2023 – Feb 2024

Staff of Security Division

- Practiced secure coding, security-as-code, and system hardening
- Solved security challenges in team-based Capture the Flag (CTF) competitions

PUBLICATIONS & CONFERENCES

13th Electrical Power, Electronics, Communications, Controls, and Informatics Seminar

Jun 2026

Automated Engagement Assessment in Block-Based Programming Using Facial Emotion Recognition

10th International Conference on Sustainable Information Engineering and Technology

Oct 2025

Multimodal Integration of CNN and Facial Landmarks for Educational Emotion Recognition

4th International Conference on Multidisciplinary Applications of Information Technology

Aug 2025

An Early Evaluation of Block-Based Programming Learning Media to Help Students Learn Programming

TECHNICAL SKILLS

Languages & Frameworks : Python, Java, C++, C#, JavaScript, TypeScript, PHP, Golang, Laravel, Spring Boot, ASP.NET, Vue.js, React.js, Angular, Next.js, Node.js, Flutter, FastAPI, Flask, Django

AI / ML : Machine Learning, Deep Learning, Computer Vision, Large Language Models (LLMs), PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, MediaPipe, LangChain, LangGraph, CrewAI, MCP, n8n, Ollama, Hugging Face, RAG, LLM API Integration, Claude Code

Infrastructure & DevOps : Git, GitHub, GitLab, CI/CD, AWS, Docker, Redis, Nginx, MinIO

Databases : MySQL, PostgreSQL, MongoDB, ChromaDB, ClickHouse, PostGIS