

KHOIRUL MALIK

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Jakarta Pusat, DKI Jakarta, 10340

Final-year Internet Engineering student at Universitas Gadjah Mada with proven experience in software development, cloud computing, and project management. Skilled in designing and delivering scalable applications, and in managing cross-functional teams to ensure project success. Recognized for strong leadership, problem-solving, and the ability to drive measurable impact in both academic and professional projects.

Education

Gadjah Mada University, Yogyakarta, Indonesia

Jun 2022 – Present

Bachelor of Applied Engineering, Internet Engineering Technology, 3.66/4.00

- UGM Delegate, Programming Division at GEMASTIK 2023
- Finalist, LIGA KOMATIK UGM 2023 (Programming)
- Best Committee, National Networking Competition 2.0

Work Experiences

PT GMF AeroAsia Tbk. – Tangerang, Indonesia

Oct 2025 – Present

Software Engineer Intern

- Designing scalable full-stack architecture using Angular & NestJS with REST APIs, adhering to engineering standards and contract-first workflows.
- Securing application endpoints by implementing JWT-based authentication and Role-Based Access Control (RBAC) middleware policies.
- Managing database reliability using PostgreSQL and Prisma ORM, implementing safe schema migrations, rollback strategies, and automated data validation.
- Engineering end-to-end DevOps pipelines (GitHub Actions) and provisioning hybrid cloud infrastructure (AWS + VPS) using Terraform (IaC), ensuring immutable infrastructure and zero configuration drift.
- Enhancing system resilience by implementing automated backups, disaster recovery, and observability (structured logging/health checks), significantly reducing MTTR/MTTD.

Community Service Program (KKN) – Mentawai Islands, Indonesia

Jun 2025 – Aug 2025

Web Developer & Digital Transformation Lead

- Led digital transformation by developing two web-based solutions for public information and internal administration.
- Built a full-stack resident database system (PERN stack), improving data accessibility and efficiency.
- Redesigned the official village website using a low-code/no-code platform (Hostinger Website Builder), delivering modern UI/UX and workflow improvements for better public information access.
- Trained 5+ village officials to ensure adoption and sustainability of digital platforms.

Yayasan Al-Azhar Kelapa Gading – Jakarta, Indonesia

Mar 2025 – Jul 2025

Software Engineer Intern

- Built a full-stack internal ticketing system (PERN + TypeScript), automating workflows and reducing manual service requests by 70%.
- Designed scalable database schema with Prisma ORM and developed RESTful APIs with SLA tracking.
- Delivered a responsive, role-based React.js interface, improving transparency and accountability.

PT Parama Data Unit – Yogyakarta, Indonesia

Aug 2024 – Dec 2024

Project Manager & Backend Developer

- Led a cross-functional team of 16 students (Backend, Frontend, AI, QA) using Waterfall methodology, achieving **100% on-time delivery** of the functional prototype
- Designed and implemented RESTful APIs, integrating OpenCV results via WebSocket.
- Delivered a functional prototype (Node.js, Express.js, MongoDB, HTML/CSS) within project timeline.

Kidiko – Yogyakarta, Indonesia	May 2024 – Aug 2024
<i>Full Stack Web Developer Intern</i>	
<ul style="list-style-type: none"> Developed prototype website (MEVN stack) for kidiko.id, enabling MVP launch. Configured the development environment and implemented AAA functionalities. Integrated chatbot feature to enhance user interaction. 	

PT Tripower Solar Nusantara – Yogyakarta, Indonesia	May 2024 – Aug 2024
<i>Web Developer Intern</i>	
<ul style="list-style-type: none"> Developed web applications using HTML, CSS, JavaScript, Node.js, and MongoDB to support internal operations. Collaborated with team to design and implement solutions with Express.js, improving efficiency of workflows. Contributed to early-stage web application design and planning. 	

Organizational Experience

KMTEDI UGM – Yogyakarta, Indonesia	Jan 2023 – Jun 2024
<i>Staff of Interests and Talents Division</i>	
<ul style="list-style-type: none"> Developed and provided platforms to support students' interests and talents in academic and non-academic fields. Contributed to program planning and execution with strong teamwork and commitment. Vice Project Officer – T-GES 2024: Co-led 78 committee members, organized 33-day event (17 competitions, 360 participants). Vice Head of Event Division – T-GES 2023: Designed event concepts, rundowns, guidelines, and TOR; coordinated 65-day event (14 competitions, 344 participants). 	

FORKOM TRI UGM – Yogyakarta, Indonesia	Jan 2023 – Mar 2024
<i>Vice Head of Interests and Talents Division</i>	
<ul style="list-style-type: none"> Contributed to the planning and execution of division programs, successfully delivering all targeted initiatives for the period. Oversaw and coordinated seven key programs: Cyber League 2023, Road To Glory, Road To TGES, Road To Povvaf, UKM TRI, Database of Athletes, and Athlete Appreciation. Ensured continuity of annual programs while fostering student engagement and athlete development. 	

Certifications

- Cloud & Networking:** HCIA–Cloud Computing V5.0 (Huawei), HCIA–Datacom V1.0 (Huawei), CCNAv7: Introduction to Networks (Cisco), CCNAv7: Switching, Routing, and Wireless Essentials (Cisco), Cloud & GenAI Fundamentals on AWS (Dicoding), Architecting on AWS (Dicoding).
- Software Engineering & DevOps:** Back-End Developer Expert (Dicoding), CI/CD Implementation (Dicoding), Node.js Application Developer (Dicoding)
- Programming & AI:** Intermediate Python (Skilvul), Advanced Python (Gold) (Skilvul) C++ (Great Learning), Basic AI (Dicoding)
- Project & Management:** Project Management Basics (Dicoding)

Skills

Technical Skills:

- Programming Languages:** TypeScript, JavaScript (ES6+), Python, C++, SQL, HTML/CSS.
- Frameworks & Libraries:** NestJS, Express.js, React.js, Vue.js, Flask, Node.js.
- Cloud & DevOps:** AWS, Terraform (IaC), CI/CD (GitHub Actions), Docker, Linux Administration (Ubuntu/Kali).
- Databases:** PostgreSQL, MongoDB
- Networking & Security:** Basic Computer Networking, Basic Cybersecurity

Soft Skills: Leadership, Responsiveness, Communication, Teamwork, Easily Adaptable, Public Speaking