

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 AI – 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

Full Stack Web Developer Intern

- 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

Web Developer Intern

- 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

Staff of Interests and Talents Division

- 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

Vice Head of Interests and Talents Division

- 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