

ATHALLA BARKA FADHIL

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Highly motivated and adaptable IT undergraduate specializing in backend development and DevOps. A proactive learner with a strong drive to experiment with new technologies, effectively utilizing AI tools to rapidly master complex systems and codebases. Demonstrates a commitment to code excellence by consistently refactoring and improving solutions to meet production-grade standards. Currently deepening expertise in NestJS, Next.js, and automated cloud infrastructure to build robust and scalable applications.

Technical Skills

Languages: JavaScript (Advanced) • TypeScript (Advanced) • PHP (Proficient) • Golang (Familiar)

Backend Frameworks: NestJS (Advanced) • Next.js (Advanced) • Laravel (Proficient)

DevOps & Infrastructure: Docker (Advanced) • Terraform (Proficient) • CI/CD (GitHub Actions) • GCP • Proxmox • Nginx

Security Tools: Fail2Ban • Tailscale • UFW • Cloudflare Tunnels • Cloudflare DNS

Databases & Storage: MySQL • PostgreSQL • Redis • S3 (Minio)

Other Tools: Git • Linux Server Administration • GNS3

Education

Institut Teknologi Sepuluh Nopember

Bachelor of Information Technology

Jul 2023 - Jan 2027 (Expected)

Surabaya, Indonesia

- Active as Co-lead of website in BEM ITS 2025

Work & Organizational Experience

ARA 7.0

Lead Backend Developer

September 2025 - Present

Remote

- Authored technical briefs for feature development and conducted code evaluations to ensure alignment with project goals.
- Designed and managed the backend infrastructure, including setting up Minio S3 for cloud storage and containerizing the application using Docker Compose.
- Led the backend team by delegating tasks to members, tracking progress, and ensuring timely project delivery.
- Implemented an email integration module for transactional notifications and user communication.
- Spearheaded code refactoring initiatives and conducted revisions to improve system performance and maintainability.
- Enforced coding standards and best practices to deliver robust, production-grade software.

SpeedForce.AI

DevOps Intern

September 2025 - October 2025

Remote, Vietnam

- Automated the provisioning of core Google Cloud Platform (GCP) infrastructure using Terraform, including the setup of a GCS bucket for secure remote state management, and integrated the entire workflow into a GitHub Actions CI/CD pipeline.

Arkalearn

Part-Time Fullstack Developer

May 2025 - Present

Remote

- Integrated New Relic for real-time Application Performance Monitoring (APM), enabling proactive identification of system bottlenecks and performance degradation.
- Implemented a Zero-Trust security architecture by disabling public SSH access (port 22) and transitioning to secure management via a private network (Tailscale), eliminating brute-force attack vectors.
- Drastically reduced the server's attack surface by auditing and closing over 15 unnecessary public ports, including those for databases (MySQL, Redis) and internal applications.
- Deployed an Intrusion Prevention System (IPS) using Fail2Ban to automatically detect and block malicious IPs attempting to attack server services.
- Conducted an SSH configuration audit, remediated a critical vulnerability that allowed password authentication, and enforced a strict key-only access policy.

- Diagnosed and resolved a critical performance issue in the monitoring stack, reducing a container's CPU usage from 53% to 3.29% (a 93% decrease) and freeing up significant system resources.
- Stabilized the server by identifying and disabling a misconfigured 'supervisor' service that was causing a crash loop every 30 seconds.
- Proactively prevented server failure due to disk exhaustion by implementing Docker log rotation at the daemon level.
- Designed and implemented an automated disaster recovery solution for MySQL databases using a sidecar container architecture.
- Developed and scheduled cron-based backup scripts to automatically dump, compress (gzip), and securely upload database backups to S3-compatible storage, ensuring business data protection.

BEM ITS (Student Executive Board)

Co-Lead Website, DevOps, & Backend Developer

Co-leading the development and infrastructure management for the official website of the ITS Student Executive Body at <https://bem-its.com>.

Apr 2025 - Present

Surabaya, Indonesia

- Supervised the UI/UX and Frontend sub-divisions to ensure cohesive product development.
- Deployed and managed infrastructure, utilizing Cloudflare Tunnels and DNS to securely expose a private campus VPS to the public internet.
- Integrated the website with Ghost CMS API for streamlined content management.
- Developed an internal link shortener service to support BEM ITS operational needs.

Futurest 2025

IT Development Lead

FUTUREST is Indonesia's grand stage for renewable energy, orchestrated by SRE ITS to ignite student passion in pioneering energy transformation.

Oct 2024 - Apr 2025

Surabaya, Indonesia

- Led three sub-divisions: Backend, Frontend, and UI/UX in application development.
- Managed deployment processes to ensure system stability and optimal performance.
- Implemented Scrum workflow using GitHub Projects to streamline task management.
- Conducted troubleshooting and resolved production bugs to maintain system reliability.

ARA 6.0

Backend Developer

- Developed a RESTful endpoint using NestJS with Typescript for an IT event for high school students.

Nov 2024 - Feb 2025

Surabaya, Indonesia

INI LHO ITS 2025

Backend Developer

- Developed a RESTful endpoint using Golang with Gin for a portal introducing Institut Teknologi Sepuluh Nopember.

Oct 2024 - Jan 2025

Surabaya, Indonesia

Barunastra ITS Roboboat Team

Web Developer & UI Control

The Barunastra ITS Team conducts research on Autonomous Surface Vehicles (ASVs) to advance global maritime technology.

Apr 2024 - Feb 2025

Surabaya, Indonesia

- Developed an inventory management system to efficiently track team resources, accessible at: <https://its.id/m/inventory>
- Created a monitoring system for ASVs, enabling real-time tracking and analysis of vessel performance.
- Developed A Company Profile Website at <https://barunastra-its.com>

Smart City and Cyber Security Laboratory (KCKS)

Laboratory Assistant

Assisting in a laboratory that is part of The Information Technology Department at Sepuluh Nopember Institute of Technology.

Feb 2024 - Present

Surabaya, Indonesia

- Built a 4-node cluster, deployed Proxmox with GPU passthrough, configured networking for stable internet connectivity, and implemented CI/CD pipelines using Dokploy.
- Scaled the GNS3 network simulation platform to support 124 concurrent students by refactoring its source code and migrating the database backend from SQLite to PostgreSQL.
- Enhanced academic integrity by developing automation scripts for GNS3 to securely manage project and role creation, preventing cheating during lab sessions.
- Assisted in Computer Network courses and provided technical support to students during lab sessions.
- Created and maintained virtual machines to support laboratory practicum needs.

ARA 5.0

Backend IT Staff

ARA is an event by the Information Technology Department to form agents of reform in technology for Indonesia 2045.

Oct 2023 - Jun 2024

Surabaya, Indonesia

- Contributed to the development of the API for the ARA 5.0 backend website.

- Developed APIs using NestJS, managed databases with MySQL and Prisma ORM.
- Improved code quality and maintainability by embracing TypeScript and implemented Swagger.

KodingWorks

Backend Student Internship

Feb 2022 - Sep 2022

Remote

Contributed to a user-centric product innovation environment with a vision to be a medium for the Good Servant of God (Itaqullah — “Fear Allah”).

- Explored foundational concepts of Node.js, enhancing skills in server-side JavaScript development.
- Developed basic APIs using NestJS, focusing on practical application of core backend principles.

Other Achievements

- **Awarded Best Final Project in Cloud Computing Technology Course** (2024): Led VM setup, NGINX configuration, tech stack decisions, and created comprehensive documentation.
- **Cohort Website Project** (2024): Contributed to developing a cohort website, focusing on the Visi Misi section, SEO optimization, and resolving Git conflicts.