

# ATHALLA BARKA FADHIL

Phone: +62 821-3417-0234 | Email: athallabarka@gmail.com | LinkedIn: linkedin.com/in/athallabf | GitHub: github.com/athallabf

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

September 2025 - Present

Lead Backend Developer

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

September 2025 - October 2025

DevOps Intern

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

May 2025 - Present

Part-Time Fullstack Developer

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*

**Apr 2025 - Present**

*Surabaya, Indonesia*

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

- 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*

**Oct 2024 - Apr 2025**

*Surabaya, Indonesia*

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

- 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*

**Nov 2024 - Feb 2025**

*Surabaya, Indonesia*

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

## **INI LHO ITS 2025**

*Backend Developer*

**Oct 2024 - Jan 2025**

*Surabaya, Indonesia*

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

## **Barunastra ITS Roboboat Team**

*Web Developer & UI Control*

**Apr 2024 - Feb 2025**

*Surabaya, Indonesia*

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

- 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*

**Feb 2024 - Present**

*Surabaya, Indonesia*

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

- 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*

**Oct 2023 - Jun 2024**

*Surabaya, Indonesia*

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

- 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

Feb 2022 - Sep 2022

*Backend Student Internship*

*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.