

# Laksamana Sulthan Alam .S

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Dynamic Software Engineer with a proven track record in developing high-performance stack solutions using various technologies. Adept at optimizing application performance, troubleshooting complex technical challenges, and ensuring efficient data flow to enhance user experience. Passionate about leveraging emerging industry trends and continuously advancing technical skills to deliver innovative solutions that drive business growth and operational efficiency.

## WORK EXPERIENCE

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### Backend Engineer & System Analyst

Jul 2024 - Aug 2025

#### Machine Vision Indonesia

Malang City, East Java, Indonesia

- Delivered **enterprise automation platforms** (document processing, maintenance, content management, workload planning, and daily operations) that reduced manual workloads, improved compliance tracking, and enhanced operational efficiency.
- Designed and implemented **scalable backend architectures** with Node.js, NestJS, Express, and Directus (API, SDK, Flow), supporting both internal systems and third-party integrations.
- Built and optimized **APIs and data workflows**, leveraging **PostgreSQL** for structured storage, **Redis** for caching, and **Node-RED** for workflow automation.
- Deployed **containerized services with Docker** to ensure consistency and reliability across development, staging, and production environments.
- Partnered with frontend engineers, business analysts, project managers, and executives to align technical solutions with **strategic business goals**.
- Delivered **production-ready systems** across multiple sectors (FMCG, manufacturing, and heavy industry), enabling digital transformation initiatives and measurable efficiency gains.

### Fullstack Engineer

Jan 2024 - Jun 2024

#### Agrisolute Indonesia

Hybrid, Indonesia

- Led backend development for **Agrisolute's MVP**, creating a scalable foundation supporting both web and mobile applications.
- Designed and implemented a **modular backend architecture** with **Laravel**, improving code maintainability and accelerating future feature development.
- Partnered with the frontend team to optimize performance and interactivity, achieving a **20% faster website load speed** and enhanced user experience.
- Integrated **AWS S3** for secure cloud-based file storage and managed infrastructure on a **VPS**, ensuring stable and efficient deployments.
- Utilized **MySQL** for structured data management and **Ajax** to enable dynamic, responsive frontend interactions.

### Fullstack Developer & IT Support

Nov 2022 - Jan 2024

#### Faculty of Medicine and Health Science UIN Malang

Kota Batu, East Java, Indonesia

- Developed and maintained **internal academic and administrative systems**, supporting both faculty operations and academic processes.  
Led backend development for core platforms, including:
  - Sispenol (Learning Management System – LMS)** for Quiz and Test.
  - STARS (Academic & Administrative Management System – ADMIS)** for academic records and administrative workflows.
- Enhanced **SOP management workflows**, improving process efficiency by **50%** through system automation and optimization.
- Built and maintained **backend services** for intra-faculty systems, covering data processing, document management, and performance optimization.
- Utilized **Laravel, MySQL, and Ajax** to deliver secure, dynamic web applications hosted on faculty-managed **VPS infrastructure**.

### Software Engineer

Jun 2022 - Nov 2022

#### PT Aira Teknologi Indonesia

Malang City, East Java, Indonesia

- Developed a **Daily Management System (DMS)** to support operational planning and distribution workflows for a manufacturing enterprise.
- Led **end-to-end backend development**, delivering scalable and maintainable services aligned with client requirements.
- Implemented a **hybrid backend architecture** using **Laravel** and **Node.js (Express.js)** to leverage the strengths of both frameworks.
- Designed and optimized **MySQL database schemas** to ensure efficient, reliable, and secure data management.

## SKILLS

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**Soft Skills:** Fast Learner, High Curiosity, Team Player, Communicative

**Tech Stacks:** Nest.js, Express.js, Node.js, Next.js, Laravel, Javascript, PHP, Golang, MySQL, PostgreSQL, Redis, Git, Notion, AWS, Docker, Directus, ORM, Node-RED, Firebase

## EDUCATION

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### Bachelor of Computer Information Systems Computer Science

Sep 2019 - Jun 2026

Universitas Islam Negeri Maulana Malik Ibrahim

GPA: A

- Faculty Advisor at Google Developer Student Club (GDSC) UIN Malang
- Chairman at Data Science Enthusiast (DSE) UIN Malang
- Speaker at Event by Various Informatics Engineering Community

## LANGUAGES

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**Indonesia** (Native proficiency) • **English** (Professional working proficiency)