

# M. MIFTAHUL NIZAM

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## SENIOR SOFTWARE ENGINEER | BACKEND SYSTEMS | ENTERPRISE INTEGRATION

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### PROFESSIONAL SUMMARY

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Senior Software Engineer with **10+ years** of software engineering experience across enterprise systems, custom software development projects, and freelance development. Experienced in **backend engineering, system architecture, database design, enterprise integrations, application delivery, CI/CD, and production support**. Currently responsible for the technical lifecycle of a business-critical port operations platform spanning **7+ core modules, 400+ database tables, and 11M+ records**. Previously promoted to **Technical Lead**, leading teams of **3-5 developers** across multiple client projects. Strong hands-on experience delivering and maintaining production systems using **Node.js, TypeScript, PostgreSQL, Docker, Linux, and modern engineering practices**.

### TECHNICAL SKILLS

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**Core Engineering:** Node.js, TypeScript, ReactJS, NestJS, PHP, Laravel, REST APIs

**Additional Backend Experience:** Go, ASP.NET

**Database:** PostgreSQL, MySQL, Database Design, Query Optimization

**Architecture & Integration:** System Architecture, Modular Monolith, Enterprise Integration, SAP Integration, Payment Gateway Integration

**DevOps & Production:** Docker, Linux, GitHub CI/CD, Deployment, Production Support

**Engineering Practices:** Git, Code Review, Git Workflow, Coding Standards

### PROFESSIONAL EXPERIENCE

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#### PT Fokus Jasa Mitra | Gresik | 2023-Present

**Senior Software Engineer** | Assigned to PT Petrokimia Gresik - Port Operations

- Own the **end-to-end technical lifecycle** of a business-critical port operations platform spanning **7+ core modules** and multiple submodules, covering architecture, **backend development**, maintenance, integrations, and **production support**.
- Partner with domain stakeholders across all four Port Department units to translate operational requirements into technical specifications and scalable solutions, while driving **architecture and implementation decisions** for system enhancements.
- Maintain and continuously evolve a large-scale production system comprising **400+ database tables and 11M+ records**, supporting data-intensive port operations.
- Optimized complex database queries and views, improving execution performance by **50%+** across data-intensive operational workflows.
- Design and deliver integrations across **5+ supporting applications**, establishing a centralized source of operational data and improving consistency across departmental workflows and downstream systems.
- Enable centralized digital monitoring of loading and unloading operations, improving operational visibility, data consistency, and logistics efficiency while supporting sustained positive despatch performance relative to demurrage costs.

**Tech Stack:** Node.js, React.js, Laravel, React Native, PostgreSQL, Docker, Git, Linux

#### PT Andromedia | Surabaya | 2016-2023

**Technical Lead** | 2020-2023

**Software Engineer -> Senior Software Engineer** | 2016-2020

- Owned architecture, **database design, API design**, technology selection, development standards, deployment, and **technical decision-making** across client projects.
- Led teams of **3-5 developers** across 1-3 concurrent development and maintenance projects, providing technical direction, task allocation, **code review**, and resolution of technical blockers.

- Contributed to **20+ projects** for **10+ clients**, including **8+ projects as Technical Lead**, with multiple clients continuing into follow-on projects.
- Designed and evolved application architectures, including modular monolith architectures, while implementing backend functionality, business applications, and system integrations.
- Delivered business applications that transformed manual and spreadsheet-based processes into digital workflows, integrating with SAP and payment gateways to improve data accessibility, consistency, and operational efficiency.
- Established engineering practices including **code review**, Git workflows, and coding standards, while mentoring developers and **3 batches of Kampus Merdeka** participants; **3+ mentees** later progressed into more senior roles.

**Tech Stack:** PHP, Yii, Node.js, Express.js, React.js, Go, ASP.NET, Python, IBM Maximo, PostgreSQL, MySQL, SQL Server, Docker, Git, Linux

## **Independent Remote Freelance | Remote | 2017-Present (Part-time)**

### **Software Engineer**

- Delivered **15+ software projects** for **8+ Indonesian clients**, covering new application development, module enhancements, maintenance, and **production support**.
- Owned end-to-end delivery for solo projects, from **requirements gathering** and architecture design to **backend development, database design**, deployment, and ongoing maintenance.
- Collaborate with the KSatu team as a Backend Engineer and DevOps contributor, participating directly in client requirement discussions while developing backend services and managing production deployments.
- Designed monolith and modular monolith applications using **Node.js** and **PostgreSQL**, including **REST APIs**, authentication, business logic, database workflows, and **payment gateway integrations**.
- Built and evolved healthcare systems for a repeat RSIA client across **5+ engagements**, translating unfamiliar business processes into technical solutions through direct stakeholder collaboration.
- Contributed to SIAKAD, a school academic system focused on student billing and designed for continued module expansion.
- Managed **Linux-based production environments**, including application deployment, **Docker-based services**, configuration, standard monitoring, troubleshooting, and **production support**.

**Core Tech Stack:** Node.js, React.js, PostgreSQL, Docker, Git, Linux

## **EDUCATION**

**Bachelor of Computer Science** | Universitas Pembangunan Nasional "Veteran" Jawa Timur | 2016

## **LANGUAGES**

**Indonesian:** Native

**English:** Intermediate