

Muhamad Nur Arif

Full-Stack Software Engineer | AI/ML Developer

+62 851-1774-2909 | muh892004@gmail.com | Jakarta City - Indonesia

PROFILE SUMMARY

Software Engineer focused on Full-Stack Development and Applied AI, with hands-on experience designing, building, and deploying production web applications and intelligent systems. Experienced in developing CRM and enterprise-oriented platforms, RESTful APIs, full-stack applications, and AI-powered solutions using TypeScript, JavaScript, Python, React, Next.js, Node.js, Express.js, FastAPI, Prisma, and SQL databases. Experienced across the software development lifecycle, from system architecture and backend development to frontend engineering, AI model integration, and production deployment. Currently pursuing a Bachelor's degree in Informatics Engineering at Universitas Mercu Buana, with a strong interest in software architecture, scalable systems, and applied artificial intelligence.

KEY COMPETENCIES

- Full-Stack Web Development** - Building end-to-end web applications across frontend, backend, APIs, databases, and deployment.
- Software Architecture & System Design** - Designing maintainable application structures and technology architectures for business-oriented systems.
- Backend & API Development** - Developing RESTful APIs and backend services using Node.js, Express.js, NestJS, FastAPI, and TypeScript/Python.
- Frontend Engineering** - Developing responsive and interactive interfaces using React.js, Next.js, TypeScript, and modern frontend technologies.
- Database & Data Management** - Designing and managing relational databases using MySQL, MariaDB, SQL, and Prisma ORM.
- Applied AI & Machine Learning** - Developing and integrating machine learning, deep learning, and computer vision solutions into real-world applications.
- AI Model Integration** - Connecting AI/ML models with web applications and backend services to deliver functional intelligent systems.
- Deployment & Infrastructure** - Deploying and maintaining applications on Linux-based environments, including Ubuntu VPS and containerized/server management platforms.
- Technical Leadership & Collaboration** - Leading development activities, collaborating with stakeholders, and translating business requirements into technical solutions.

PROFESSIONAL EXPERIENCE

Software Engineer - Motoriz, PT Rindang Kurnia Motor

Sept 2025 - Aug 2026

- Architected and developed an enterprise CRM ecosystem comprising a customer-facing web application, internal CRM dashboard, and centralized REST API backend to support business operations.
- Led the development team throughout system architecture, technical implementation, feature development, and production deployment.

- Engineered the backend using Node.js, Express.js, TypeScript, and MySQL, implementing JWT authentication, Zod validation, caching, email services, and RESTful APIs.
- Built both public and administrative applications using React, TypeScript, Vite, Tailwind CSS, TanStack React Query, Axios, and supporting frontend technologies.
- Established the technical foundation for future ERP and multi-outlet POS expansion, while managing production deployments across cPanel and Vercel.

Software Engineer & Machine Learning Developer -

Aug 2025 - March 2026

DAMAR Research Project

- Engineered a multimodal sentiment and affective recognition platform integrating text sentiment analysis, tabular data, and facial emotion recognition into a unified AI-driven system.
- Developed and integrated multiple deep learning models, including SEMAR, BiLSTM, CNN, ResNet50, and a multimodal fusion model, enabling separate and combined text and facial emotion analysis.
- Implemented secure application infrastructure including JWT authentication, role-based administrative access, protected API routes, data validation, and persistent prediction/testing history.
- Architected model and dataset management across VPS infrastructure, implementing automated synchronization of AI models and datasets through SSH/SFTP and deploying the application using Docker and Dokploy on Ubuntu VPS.

Full-Stack Developer & Student Team Lead - Community Engagement Program, Directorate General of Higher Education, Ministry of Higher Education, Science, and Technology (Kemdiktisaintek)

Jul - Sept 2025

- Led a four-member student development team in a government-funded community engagement program, coordinating the technical development of a digital school information system for SDN Petir 3.
- Architected and developed a full-stack school information platform with a React/TypeScript frontend and Express.js/TypeScript backend, connected through RESTful APIs and a MySQL database managed with Prisma ORM.
- Implemented a content management system (CMS) enabling school administrators to manage news, activities, digital galleries, organizational profiles, and media content through a protected administrative dashboard.
- Developed core application infrastructure, including JWT-based authentication, protected routes, file upload handling, form validation, responsive UI, and database migrations.
- Translated the school's operational and communication needs into a maintainable digital platform, applying modular frontend components, REST API architecture, and structured database design.

Frontend Assistant - Computer Science Laboratory,

Feb 2024 - Feb 2025

Universitas Mercu Buana

- Supported frontend development and programming laboratory activities, assisting students in understanding web development concepts, implementation workflows, and coding practices.
- Guided students in building web-based applications, providing technical assistance with frontend implementation, debugging, and resolving programming issues.
- Reviewed and troubleshooted student code, identifying implementation errors and helping improve code structure, functionality, and application behavior.
- Assisted laboratory instructors in delivering practical programming sessions, translating technical concepts into hands-on development exercises and providing one-on-one technical support.
- Strengthened frontend engineering and technical communication skills through continuous mentoring, problem-solving, and hands-on software development activities.

Freelance WordPress Developer - Law Firm TS PP Polri

Marc 2024 - Jul 2024

- Developed a professional web platform for a law firm, translating client requirements into a structured and responsive web interface.
- Designed and implemented frontend components and page layouts, focusing on usability, responsive behavior, and consistent visual presentation.
- Collaborated directly with the client to gather requirements, refine features, and align the application with organizational needs.
- Handled development, testing, debugging, and revisions throughout the project lifecycle, ensuring the delivered application met agreed requirements.

Junior IT Support Intern - JNE Express

Jan 2022 - May 2022

- Provided technical support for hardware, software, and computer-related issues, helping maintain the availability of IT equipment for daily operations.
- Performed troubleshooting and basic diagnosis of technical problems, identifying hardware, software, and connectivity issues and applying appropriate solutions.
- Assisted with computer setup, configuration, maintenance, and operational support for users and workplace IT equipment.
- Supported day-to-day IT operations, developing practical experience in troubleshooting, system maintenance, and technical problem-solving.

EDUCATION

- Bachelor of Informatics Engineering - Mercu Buana University 2023 - Present
- Technical High School - SMK Yadika 3 Jakarta 2020 - 2023

CERTIFICATIONS AND ACHIEVEMENTS

- Dicoding - Belajar Dasar Structured Query Language (SQL)
- Dicoding - Belajar Dasar Data Science
- DATACAMP - AI Fundamentals
- ORACLE Academy - Database Programming with SQL
- ORACLE Academy - Database Design
- Codepolitan - Fullstack MERN Developer
- Course-Net - Application Development Javascript
- Inco Academy Work In Tech - First Place in Business Idea Development
- Alibaba Cloud - Certified Developer
- Coursera - Google IT Support

PORTOFOLIO

- Portofolio : <https://ariftsx.id>
- GitHub Profile : <https://github.com/ariftsx>
- LinkedIn Profile : <https://www.linkedin.com/in/muhamadnurarif>