

DESKA MULYANA

Tangerang | <https://www.linkedin.com/in/deskamulyana/> | <https://github.com/deskastudio> | <https://portfolio-deska.vercel.app>

PROFESIONAL SUMMARY

Software Engineer & AI Engineer with experience building and maintaining production-grade systems end-to-end. Experienced in developing scalable web applications, designing RESTful APIs, managing relational databases, and deploying containerized services using Docker and CI/CD in cloud environments. Built LLM-based AI systems using a Retrieval-Augmented Generation (RAG) approach with vector databases to support automation and assessment workflows. Comfortable handling development through production stability in Linux environments.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Golang, Java

Backend & API Development: Node.js (Express.js), NestJS, Flask, REST API Design, Authentication (JWT, OAuth), API Documentation (Swagger)

Frontend Development: React.js, Next.js, Redux, Tailwind CSS, Shadcn/ui

Database & Data Engineering: PostgreSQL, MySQL, MongoDB, Database Schema Design, Query Optimization, Relational Modeling

AI & System Integration: LLM Integration, Retrieval-Augmented Generation (RAG), Vector Database, Prompt Engineering

DevOps & Infrastructure: Docker, CI/CD (GitHub Actions), Linux, SSH, VPS Management, Deployment Automation, Railway, Vercel

Tools & Workflow: Git, Agile/Scrum, Jest, WebSocket Integration

PROFESIONAL EXPERIENCE

M-Knows Consulting & Kampus Gratis | Web Programmer & AI | November 2025 – Sekarang

- Developed and maintained production applications including kampusgratis.id and multi-client SaaS Learning Management System (LMS) platforms on AWS infrastructure.
- Managed Docker-based containerization and implemented CI/CD pipelines (GitHub Actions) for automated build, testing, and deployment.
- Designed and optimized PostgreSQL database schemas to support scalable and multi-client system architecture.
- Built a web-based psychotest platform with dynamic question management, assessment categorization, and automated scoring logic.
- Integrated an LLM-based AI chatbot using a Retrieval-Augmented Generation (RAG) approach with vector database implementation to support automation and assessment workflows.
- Performed monitoring, debugging, and production issue resolution to maintain system stability and performance.
- Owned features end-to-end, from technical design through development and production deployment.

Tech Stack: Next.js, NestJS/Express.js, TypeScript, PostgreSQL, Docker, AWS, GitHub Actions (CI/CD), OpenAI API, Vector Database

Nova Development / Trader | Front End Developer | August – Oktober 2025 | Remote | Contract

- Developed and maintained a production-grade trading platform with a strong focus on system stability and performance.
- Integrated WebSocket on the frontend to handle real-time market data streaming and transaction updates.
- Optimized application performance to maintain memory usage below 500MB in production.
- Performed debugging and root cause analysis on critical issues to reduce production bugs.
- Collaborated with backend engineers to integrate REST APIs and ensure reliable real-time data synchronization.

Tech Stack: Next.js, TypeScript, WebSocket, Tailwind CSS, REST API

Fullstack Web Developer | Travedia Terbit Semesta | January – June 2025 | Remote | Contract

- Developed and maintained the travel booking system end-to-end through production deployment.
- Designed and implemented REST APIs for user management, bookings, and transactions.
- Integrated authentication (Google OAuth) and payment gateway (Midtrans) to support secure transaction flows.
- Managed VPS-based deployment and implemented CI/CD pipelines for automated build and release processes.
- Performed monitoring, debugging, and production issue resolution to ensure system stability and performance.

Tech Stack: React.js, TypeScript, Redux, Tailwind CSS, Google OAuth, Midtrans

Independent Infrastructure & Production Systems

- Designed and managed VPS-based application deployments through production.
- Managed containerized services using Docker in Linux environments.

- Configured reverse proxy and SSL to ensure system security and availability.
- Performed monitoring and incident resolution across production systems independently.

EDUCATION

Information Systems | Gunadarma University | 2021 - 2025

- **GPA: 3.77 / 4.00**
- **Final Project:** Travel Website Development Using Agile Scrum Methodology
- **Relevant Coursework:** Web Programming & Development, Database Management Systems, Software Engineering

CERTIFICATIONS & TRAINING

- **Fullstack Software Developer** | Kampus Merdeka x Productzilla
- **Fullstack Web Developer** | Kampus Merdeka x LearningX
- **Junior Web Programming** | Badan Nasional Sertifikasi Profesi (BNSP)
- **Project Management Course** | MySkill
- **Fundamental Front End Developer & Laravel 9** | Coding Studio