

MUHAMMAD DHITAN IMAM SAKTI

BACKEND DEVELOPER

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SUMMARY

Computer Science student with hands-on experience building backend systems and APIs using Go, Node.js, MongoDB, and PostgreSQL. Skilled in database design, optimization, and deploying applications with Docker. Passionate about solving real-world problems through efficient backend architectures and eager to apply technical knowledge in an internship setting.

EDUCATION

Bina Nusantara University (2023 - 2027)

Computer Science – 3.68 GPA

Relevant Coursework – Software Engineering, Distributed Cloud Computing, Database Design

PROJECTS

ARKIVE – Go, PostgreSQL, Docker

Decentralized photo-sharing app built with Go, featuring a layered architecture and modern DevOps practices for scalability and deployment.

- Developed a high-performance backend in Go using a clean Handler–Service–Repository architecture.
- Containerized the app and PostgreSQL with Docker Compose for seamless deployment to DigitalOcean.

BYTESIZE – Go, PostgreSQL

Content-addressable storage system with chunk-level deduplication for efficient file management and scalable backend design.

- Engineered a storage engine in Go with chunk-level deduplication, reducing storage usage by eliminating duplicate data.
- Implemented concurrent upload and retrieval pipelines using goroutines and channels for improved throughput.
- Designed a modular Handler–Service–Repository architecture with PostgreSQL as the metadata store for chunks and file indexing.

Dirgantara Anime API – Node.js, Express, PostgreSQL

Research-backed API platform optimized for asynchronous performance, designed to handle large anime datasets with scalable backend architecture.

- Developed a RESTful API with endpoints for search, genre, studio, and user-managed AnimeLists using Node.js and Express.
- Implemented performance optimizations including connection pooling, Redis caching, and batch processing with Promise.all.
- Published research findings at ICCSCI 2025 (Elsevier), demonstrating significant improvements in throughput and resource utilization.

SKILLS

- Programming Languages: Go, JavaScript/TypeScript (Node.js), Python SQL
- Databases: PostgreSQL, MySQL, MongoDB, Redis
- Tools: Docker, Postman, Git/GitHub, OpenAPI Documentation (Swagger)
- Backend Expertise: REST API Development, Concurrency (Goroutines/Channel)

ACHIEVEMENTS AND PUBLICATIONS

- Research Publication: “Optimizing Asynchronous Performance in Node.js with Express and PostgreSQL.” ICCSCI 2025 (Elsevier).
- SQL (Intermediate) Certificate, HackerRank (2025).