

# Jonathan Maverick

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## Summary

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Backend engineer specializing in Go-based API development and service-oriented architectures. Experienced in designing modular backend systems with inter-service communication, PostgreSQL integration, Dockerized environments, and automated CI/CD pipelines.

## Technologies

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**Languages:** Go, Java, Python, TypeScript, JavaScript, C#, SQL, PHP

**Technologies:** Gin, Spring Boot, React, Next.js, Laravel, Flask, PostgreSQL, MySQL, SQL Server, Supabase, Firebase, Docker, Git, Message queues, Github Actions, Linux, Kubernetes, Microservices

## Experience

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**Subject Coordinator**, Binus University – Jakarta, Indonesia Aug 2024 – Feb 2026

- Coordinated and facilitated assistant teaching activities across 100+ classes, covering 8 academic subjects including Data Warehouse, Introduction to Programming, Computer Security, Network and System Programming, Computer Vision, Automation Testing, Computer Networks and Network Penetration Testing
- Supervised the creation and administration of 100+ quizzes and examinations
- Oversaw grading verification processes for more than 100 classes
- Developed and implemented standardized grading criteria to ensure consistency across 8 subjects

**PPTI Subject Coordinator**, BCA Learning Institute – Bogor, Indonesia Jun 2025 – Oct 2025

- Coordinated and managed three Computer Security classes, ensuring structured delivery and academic consistency.
- Developed case-based security scenarios and practical exercises covering core cybersecurity principles and threat analysis.
- Led assessment, grading, and correction processes to maintain rigorous evaluation standards and reinforce conceptual mastery.

**PPTI Teaching Assistant**, BCA Learning Institute – Bogor, Indonesia Jun 2024 – Oct 2024

- Delivered hands-on instruction in Database Technologies (MySQL & phpMyAdmin) to 80+ students, covering schema design, normalization, and SQL querying.
- Designed practical lab sessions and real-world database projects to strengthen students' data modeling and query optimization skills.
- Evaluated and mentored 80+ learners, improving comprehension of relational database concepts and database management workflows.

**Laboratory Assistant**, BINUS University – Jakarta, Indonesia Aug 2023 – Aug 2024

- Taught 6 to 8 classes per semester, engaging 500+ students in 10+ subjects, including Algorithm and Programming, Database Technology, and Mobile Community Solution.
- Led development of Test Progressive Assistant, a multi-domain system (Web, Mobile, Game, Networking, Business) built with React, Go, Kotlin, Unity, Docker, Firebase, and PostgreSQL.
- Designed exams and visual learning materials to enhance student understanding in Network and System Programming and Database Design.
- Assessed 500+ student performances, ensuring fair and consistent grading.

## Projects

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### Vwiker

2025

- Built a containerized multi-service backend (user, auth, post) using Go, gRPC, PostgreSQL (database-per-service), and an API Gateway.
- Implemented secure, high-performance inter-service communication with gRPC and JWT-based authentication.

### Strevo

2025

- Developed a decentralized live-streaming platform for the ICP Hackathon, integrating an OBS-based RTMP ingestion pipeline with HLS delivery.
- Implemented an AI-powered moderation agent for toxic chat detection and a highlight generation agent to automatically produce stream clips.

### D'Contest

2024

- Secured 1st Place at CodeFest Hackathon by building a Web3-based contest voting platform (React, Motoko, Firebase).
- Developed backend logic using Motoko for on-chain voting, data integrity, and identity validation; collaborated on frontend UX implementation.

### TraveloHI

2023

- Developed a full-stack travel booking application using React and Go, featuring flight and hotel search, booking checkout, and promotional code support.
- Implemented a role-based administrative dashboard to manage hotels, flights, users, and marketing campaigns.

## Education

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University of Bina Nusantara, Bachelor of Computer Science [3.81 GPA]

2022 – 2026

- Software Engineering Streaming
- Web Programming Elective Course

## Publications

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Personal Protective Equipment Detection for Construction Site Safety Using YOLOv9

Nov 2024

Reynaldi Adidarma, *Jonathan Maverick*, Islam Nur Alam, and Lili Ayu Wulandhari  
10.1109/ICIMCIS63449.2024.10956767

## Achievements

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1st Place – Codefest Blockchain Hackathon 6.0

September 2024

Codefest, Dfinity Foundation

- DContest, a decentralized voting platform built on the Internet Computer using Motoko Programming Language.