

MUHAMMAD NURUL AFIF MALIKI

081393764225 | afif.maliki21@gmail.com | <https://www.linkedin.com/in/muhammadnurulafifmaliki> | <https://github.com/mafif21>

Wisma Purnama 2, Jl. Tirtawangi Raya No. 10, Cipagalo, Kec. Bojongsoang, Kabupaten Bandung, Jawa Barat. kode pos: 40287

A developer with a strong understanding of system development and backend and frontend architecture. A graduate of Information Systems from Telkom University, proficient in data management, API development, and implementing technology-driven solutions to enhance business efficiency. Experienced in collaborating with cross-functional teams to build scalable, secure, and user-oriented systems. Highly motivated to continuously learn, adapt to technological advancements, and innovate to create impactful solutions.

Work Experiences

Bank CIMB Niaga - Tangerang Selatan Indonesia

Oct 2024 - Present

Software Developer

CIMB Niaga is one of the largest banks in Indonesia, focusing on retail, corporate, and digital banking with technology-driven innovations.

- As a Backend Developer at CIMB Niaga, I am responsible for developing and managing backend services using Golang. I built and integrated OTP validation services to enhance system security. Additionally, I developed an audit log service integrated with eKYC to track system activities comprehensively.
- I also implemented Conjur across all Golang-based microservices to improve credential management security. To ensure system reliability, I wrote unit tests for the Conjur integration module in OCTO-Lib and managed the CI/CD pipeline to integrate with a private internal library. Furthermore, I built the service application config to provide information related to the marketing source code.
- To improve system efficiency and performance, I optimized the system by removing Bootstrap from package.json and replacing it with an internal library. Additionally, I use Bitbucket for version control and collaborate with cross-functional teams in software development.

Faculty of Industrial Engineering Telkom University - Bandung, Indonesia

Feb 2024 - Jul 2024

Backend Developer

The Faculty of Industrial Engineering is a faculty under the auspices of Telkom University, housing several departments including Information Systems, Logistics Engineering, and Industrial Engineering.

- Documented UML diagrams for the existing application to facilitate the migration to microservices, including in-depth system analysis and detailed diagram creation to ensure a clear understanding of the application's structure and workflow.
- Migrated 27 services from a SOFI monolithic application to a microservice architecture using Golang, encompassing system redesign, service decomposition using Domain Driven Design, and integration with other services in a distributed environment.
- Was responsible for performing integration testing on APIs that I migrated using the Postman application, as well as conducting load testing using K6. The goal was to measure the system's capability in handling specific loads across various expected usage levels.
- I was responsible for deploying applications to the cloud by packaging them into Docker containers, and connecting one service to another (especially the migrated services) through Docker networking.
- Implemented SDLC Iterative Incremental Development method in backend development process for services transitioning to microservices applications to ensure development alignment and quality.

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka - Bandung, Indonesia

Aug 2023 - Jan 2024

Cloud Computing Cohort

Bangkit is a Google-led academy designed to produce high-caliber technical talent for world-class Indonesian technology companies and startups. The Bangkit program consists of three learning paths: Android Development, Cloud Computing, and Machine Learning.

- During the capstone project, I actively participated in crafting API documentation using Swagger. My primary focus was to ensure that the generated documentation catered to business needs and was easily comprehensible for relevant stakeholders.
- I made direct contributions to the development of API History for a diet application called Dietin. In this project, I utilized Node.js with the Express.js framework and Firestore database to deliver an efficient solution for tracking the history of scanned food items, taking into consideration clear business objectives and requirements.
- I took on the responsibility of deploying the backend application, leveraging horizontal scaling capabilities from Cloud Run, seamlessly integrated with Docker. The outcome was the implementation of a reliable and scalable deployment process.

EAD Laboratory - Bandung, Indonesia

Sep 2023 - Dec 2023

Web Application Development Practicum Assistant

EAD Laboratory is a laboratory under the Information Systems program at the Faculty of Industrial Engineering, Telkom University, Bandung. This laboratory serves as a platform for students interested in application development.

- Diligently, I crafted a structured set of rules for the web development practicum, encompassing key aspects to ensure a smooth process throughout the practical sessions.
- As a mentor, my role extends beyond providing fundamental guidance. Actively engaging, I assist students in overcoming challenges they may encounter during web development, offering specific guidance and measurable solutions.
- I designed and implemented a comprehensive case study on login registration using PHP. It not only serves as a project for understanding but also provides in-depth insights into the application of sessions and cookies.

- With patience and dedication, I successfully mentored 18 students during the practicum. The average final score reached 76.57, while the practicum success rate reached 94%, reflecting the quality of guidance and support provided.

Balai Besar Barang dan Bahan Teknik - Bandung, Indonesia

Jun 2023 - Aug 2023

Fullstack Developer

The Balai Besar Bahan dan Barang Teknik Company, under the Indonesian Ministry of Industry, offers professional technical services, including Testing, Calibration, Technical Inspection, and Applied Research and Development.

- We successfully developed 28 product backlog items, encompassing a comprehensive multi-user system. This included an informative dashboard for users to efficiently monitor asset-related activities, along with features for asset and category management, account management, and asset lending.
- I implemented cutting-edge technologies, introducing real-time search and QR code scanning to enhance the overall system functionality
- The system now boasts an integrated asset lending feature, enabling users to seamlessly request loans, track request statuses, and expedite the approval or rejection process.
- New features, such as real-time search, QR code scanning, and additional real-time capabilities, have been implemented to elevate the overall user experience
- I designed and implemented an informative dashboard accessible to all users. This feature allows for more efficient monitoring of asset-related activities and loan requests.

Freelance - Bandung, Indonesia

Sep 2022 - Apr 2023

Fullstack Developer

- Generated a successful portfolio by completing a full-stack car rental web application project for 10 clients, focusing on using native PHP, Laravel, MySQL, and Bootstrap programming languages
- Successfully built a solid reputation in microservices API development using Laravel, securing and managing 2 diverse projects within 1 months. These projects include creating APIs for concerts and selling train tickets.

Education Level

Universitas Telkom - Indonesia

Sep 2020 - Sep 2024

Undergraduate Information System, 3.80/4.00

- Spearheaded the UI/UX redesign of the Peduli Lindungi application utilizing Figma, resulting in a commendable usability testing success rate of 79% from 58 testers.
- Orchestrated the development of "Warung Lamongan Kusuma Rasa," a full-stack website powered by the Laravel framework. This multifaceted platform incorporates various user roles such as admin and buyer, featuring essential functionalities like CRUD operations, menu search, cart management using session storage, user authentication, and more.
- Create a full-stack web application named "Kejar." Kejar is a full-stack web application in Indonesia, combining a job search platform for programmers with a programming language learning platform using YouTube's API. It offers authentication, authorization, category-based filtering, search functionality, CV upload, and more. The 20 product backlogs achieved a 100% success rate during user testing in the sprint review.

Organisational Experience

Enterprise Software Development - Bandung

Apr 2023 - Apr 2024

Software Developer

Laboratory organization under the auspices of the information systems study program that focuses on exploring software development, user interface, and technopreneurs.

- As an experienced and passionate web developer, I have had the privilege of conducting regular mentoring sessions to help others increase their knowledge and understanding of web development. These sessions, which occur every week, have been instrumental in helping members of the study group division to master the skills necessary to create effective and engaging websites using Html, Css, and Javascript.

Skills, Achievements & Other Experience

- **Hard Skills** (2024): Golang, Spring Boot, REST API Development, PostgreSQL, SQLC, Microservices Architecture, Conjur, JWT Authentication, CI/CD Pipeline (Jenkins), Unit Testing, Git (Bitbucket), OAuth, Docker, eKYC Integration, Secure Coding Practices, Linux, Agile Methodology, API Security, Version Control, Internal Library Integration, Troubleshooting, Debugging, System Optimization.
- **Soft Skills** (2024): Agile, Team Work, English Language, Growth Mindset, Problem Solving, Adaptability, Willingness to learn
- **Certification** (2024): Bangkit specializing in Cloud Computing, Junior Web Developer BNSP