



# HAFIZH ALFIAN SYAKUR

081213120884 | halfian639@gmail.com | <https://www.linkedin.com/in/hafizh-alfian-syakur/> | <https://pitchblendelegit.github.io/MyPortofolio/>

I am a fresh graduate in Computer Engineering from Telkom University. With a background as a Backend Developer, I have experience in designing and implementing ERP-based information systems through my thesis project at Telkom University, where I successfully developed an efficient ERP-based Material Management platform. I built 73 RESTful APIs using Node.js and managed modular Backend logic, including Authentication and ERP Module Integration. Additionally, I have strong skills in Database Management using Microsoft Azure and MySQL. My experience includes close collaboration with Frontend teams to integrate User Interfaces, ensuring seamless communication between the Frontend and Backend. Moreover, I possess Data Analysis skills gained from my internship at BRIN, along with hands-on involvement in Computer Networking and Cloud Computing.

## Work Experiences

### BRIN - Bandung

Jun 2023 - Oct 2023

#### Data Analyst / Internship

The National Research and Innovation Agency (BRIN) is a government institution under and responsible to the President, tasked with conducting research, development, study, and application, as well as invention and innovation, nuclear power management, and integrated space management.

- **Conducted research on diarrhea in West Java**, analyzing various factors contributing to the high incidence of diarrhea in the region, and comparing the cases between Indramayu and Bandung.
- **Collected data and performed predictive analysis using Excel's calculation functions**, conducted data analysis, and assisted in creating clear and informative data visualizations in graphical form.
- **Participated in BRIN's activities for the socialization of the Herbarium at MAN Purwakarta**, introducing the Herbarium located in Kalimantan and attended various events during the socialization.
- **Authored a scientific journal and participated in the Indonesia Investor Day competition**, winning a Silver Medal at INNOPA with the research titled "The Use of Artificial Neural Networks Integrated with Environmental and Climate Parameters for Diarrhea Cases Projection in West Java."

## Education Level

### Telkom University - Bandung

Sep 2020 - Aug 2024

#### Bachelor of Computer Engineering, 3.29/4.00

## Organisational Experience

### Capstone Design - Telkom University

Oct 2023 - Aug 2024

#### Backend Developer

Capstone Design is the culmination of an undergraduate student's experience at Telkom University, aimed at developing technical skills through practical application. It combines theory and experience with the use of other relevant knowledge and skills.

- **Designed and Implemented an ERP-Based Information System**, developing Hyperial, an ERP-based material management platform that helps companies efficiently and optimally manage inventory. The system utilizes ERP modules for material management to enhance workflow automation and inventory control.
- **Built RESTful APIs with Node.js**, designed and developed 73 RESTful APIs that support the application's core business logic. Achieved an 87% success rate in request processing, focusing on reliability and fast response times.
- **Developed Server-Side Logic**, created and implemented robust and modular backend logic to manage the application's business functions, including authentication, inventory management, and ERP module integration.
- **Integrated Frontend Elements with Backend**, collaborated with frontend developers to seamlessly integrate user interface elements into the application, ensuring efficient communication between the frontend and backend.
- **Managed and Maintained the Database**, designed and managed databases using Microsoft Azure Database Server, and maintained optimal data structures in MySQL WorkBench to ensure data integrity and security.

### Lab EvConn - Telkom University

Feb 2023 - Dec 2023

#### Laboratory Assistant

Everything Connected (EvConn) is a research lab related to the fields of Networking and Computer Network and Cloud Computing Practicum. EvConn lab facilities include computers, laptops, and networking devices that support smooth research activities, such as switches, routers, and computers.

- **Assistant for Computer Network and Cloud Computing Practicum**, served as a practicum assistant for two semesters, providing technical guidance to students in understanding the concepts and applications of computer networks and cloud computing.
- **EvConn Lab Administrator**, responsible for managing and developing the social media accounts of the EvConn Lab, including Instagram and the Official Line Account. Created engaging and informative design content to boost the lab's engagement and reputation among students.
- **Study Group "Introduction to Mikrotik"**, participated in an intensive two-month program focused on the introduction and understanding of Mikrotik networking devices, organized by the EvConn Lab.

*Staff*

The Computer Engineering Student Association (HMTK) is a student organization that serves as a platform for students' personal development in academic, non-academic, and leadership areas. HMTK aims to strengthen relationships among students, facilitate activities that enhance technical competencies and soft skills, and play an active role in advancing the Computer Engineering study program.

- **Secretary of the Student Welfare Department**, responsible for preparing official documents such as event proposals, invitation letters, and meeting minutes. Ensured smooth administrative communication throughout each activity and supported coordination among department members.
- **Chair of GREECE (Greetings with Computer Engineering)**, led the organization of the 2023 Computer Engineering freshman welcoming event. Managed the event from planning to execution, including coordination with different teams.
- **Secretary of the Graduation Parade and Computer Engineering Welcoming Party**, played a role in preparing and managing administrative documents related to graduation and freshman welcoming events. Responsible for meeting minutes and supporting operational activities and technical preparations on-site.
- **Public Relations Officer of Centurion**, served as the communication link between the Centurion organization and event participants. Maintained good relationships with external parties, provided clear information, and ensured effective communication channels between organizers and participants.

## Skills, Achievements & Other Experience

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- **Projects** ✓ (2024): Backend Developer / Final Project Journal
- **Achievements** ✓ (2023): Indonesia Inventor Days 2023
- **Programming Languages**: JavaScript, TypeScript, Python, C, Java, HTML, CSS,
- **Frameworks**: Node JS, Express JS, React JS, Vite JS, Next JS
- **Databases**: MySQL, MongoDB
- **Soft Skills** ✓: API Development, Database Management, Web Development, Data Structure and Algorithms, Problem Solving, Microservices, ERP
- **Cloud Platforms**: AWS, Microsoft Azure
- **Tools / Software**: Visual Studio Code, MySQL Workbench, QGIS, Cisco Packet Tracer