Muhamad Rumi Rifai

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PROFILE

A Computer Science student at Padjadjaran University and an aspiring software developer. I am driven by the challenge of building robust and scalable applications. My technical pursuits are complemented by a creative interest in writing, which hones my analytical and communication skills. I am committed to continuous learning and actively seeking opportunities to apply and expand my knowledge in a professional environment.

EDUCATION

Computer Science
Padjadjaran University
- Pursuing a bachelor's degree in computer science
- Cumulative Achievement Index: 3.77/4.00.
- Active in Organizations, Committees, and Practical Assistants.

08/2022 – present
Jatinangor,
Sumedang, Indonesia

WORK EXPERIENCE

Backend Developer & Maintainer
Himatif Apps | Himpunan Mahasiswa Teknik Informatika UNPAD
- Maintained the stability, security, and performance of all backend services for the official student association website.
- Developed, tested, and integrated new features and API endpoints in response to organizational requirements.
- Managed the MySQL database, including schema updates and routine backups to ensure data integrity.
- Collaborated with the frontend team to ensure seamless API integration and resolve technical issues.

02/2025 – present
Jatinangor,
Sumedang, Indonesia

Laboratory Teaching Assistant
Padjadjaran University
- Mentored and instructed over 50+ students in fundamental Object-Oriented Programming concepts through engaging weekly lectures.
- Designed and delivered a 2-hour weekly practical lecture, translating complex theories into understandable, hands-on programming exercises.
- Evaluated and provided constructive feedback on weekly assignments to reinforce learning objectives and improve student code quality.

02/2024 – present
Jatinangor,
Sumedang, Indonesia

Cloud Computing Cohort
Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka
- Developed and deployed a scalable backend API for the Capstone Project as a key member of a 6-person cross-functional team (Cloud, ML, Mobile).
- Implemented backend services using Go and PostgreSQL, deploying the application on Google Cloud Platform (GCP) utilizing services like Cloud Run and Cloud SQL.
- Mastered DevOps principles by completing over 40+ hands-on labs on Google Cloud Skills Boost and Dicoding, covering CI/CD, containerization, and IAM.

09/2024 – 01/2025
Jakarta, Indonesia

PROJECTS

Himatif Apps V2 (Backend) | Express.js, React.js, MySQL
The official web platform for the Informatics Engineering Student Association at Padjadjaran University.
- Engineered and maintained critical backend services for user, article, and event management, leveraging an Express.js and MySQL stack.
- Maintained application performance and high availability, ensuring reliable access to information for hundreds of active students and members.

02/2025 – present

Becycle - Waste Exchange (Full-Stack) | React.js, Express.js, Flask
A collaborative web application for a Software Engineering Project course, creating a platform for recyclable waste exchange.

02/2025 – 06/2025

- Collaborated within a cross-functional team to develop the frontend application, seamlessly integrating with a backend API built on Express.js and Flask.
- Implemented key user-facing features, including dynamic waste submission forms and a marketplace interface using React.js to facilitate user interactions.

Wawacan Digital (Full-Stack) | FastAPI, Python, SvelteKit
A semantic web platform for the preservation and academic study of historical Sundanese manuscripts.

05/2025 – 06/2025

- Engineered a RESTful API using FastAPI to serve manuscript data, implementing efficient search, filtering, and pagination endpoints.
- Developed a responsive and interactive frontend with SvelteKit, consuming the API to deliver a seamless and accessible reading experience for researchers and users.

Codetid API (Backend) | Express.js, Flask, GCP, Cloud SQL
A robust RESTful API designed for a community blogging platform, developed as a Bangkit 2025 Capstone Project

09/2024 – 01/2025

- Architected and implemented core backend services, including JWT-based user authentication, data models for posts/comments, and role-based authorization.
- Deployed the application to Google Cloud Platform (GCP), managing a Cloud SQL database to ensure data persistence, security, and scalability.

Dominant Color Picker (Web Tool) | Python, Streamlit, Scikit-learn
A data-driven web tool to automatically extract a prominent color palette from any user-uploaded image

05/2024 – 05/2024

- Applied the K-Means clustering algorithm from Scikit-learn to accurately identify and quantify dominant colors within image pixel data.
- Rapidly built and deployed an interactive user interface using Streamlit, enabling real-time image processing and color palette visualization.

Website KEPO 2024 (Static Web) | Javascripts, HTML, CSS
A static informative website for the KEPO 2024 event, designed to be fast, responsive, and easily accessible to participants.

10/2023 – 01/2024

- Implemented an intuitive, responsive user interface from the design.
- Developed interactive features, including dynamic event schedules and university profiles, by providing creative input during the design and development phase.
- Ensured seamless adaptability of the website across various devices.

SKILLS

Technical Skills
TypeScript, JavaScript, Express.js, Python, Next.js, Laravel, MySQL, Postgres SQL, Cloud SQL, Svelte, Shadcn.

Soft Skills
Good interpersonal skill and initiative, Growth Mindset, Time and Energy Management, Adaptability and Resilience, Critical Thinking and Problem Solving

LANGUAGES

Indonesia

English