

# 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** 08/2022 – present  
*Padjadjaran University* Jatinangor, Sumedang, Indonesia

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

## WORK EXPERIENCE

**Backend Developer & Maintainer** 02/2025 – present  
*Himatif Apps | Himpunan Mahasiswa Teknik Informatika UNPAD* Jatinangor, Sumedang, Indonesia

- 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.

**Laboratory Teaching Assistant** 02/2024 – 06/2025  
*Padjadjaran University* Jatinangor, Sumedang, Indonesia

- 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.

**Cloud Computing Cohort** 09/2024 – 01/2025  
*Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka* Jakarta, Indonesia

- 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.

## PROJECTS

**Himatif Apps V2 (Backend) | Express.js, React.js, MySQL** 02/2025 – present  
*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.

<b>Becycle - Waste Exchange (Full-Stack)   React.js, Express.js, Flask</b> <i>A collaborative web application for a Software Engineering Project course, creating a platform for recyclable waste exchange.</i> <ul style="list-style-type: none"> <li>• Collaborated within a cross-functional team to develop the frontend application, seamlessly integrating with a backend API built on Express.js and Flask.</li> <li>• Implemented key user-facing features, including dynamic waste submission forms and a marketplace interface using React.js to facilitate user interactions.</li> </ul>	02/2025 – 06/2025
<b>Wawacan Digital (Full-Stack)   FastAPI, Python, SvelteKit</b> <i>A semantic web platform for the preservation and academic study of historical Sundanese manuscripts.</i> <ul style="list-style-type: none"> <li>• Engineered a RESTful API using FastAPI to serve manuscript data, implementing efficient search, filtering, and pagination endpoints.</li> <li>• Developed a responsive and interactive frontend with SvelteKit, consuming the API to deliver a seamless and accessible reading experience for researchers and users.</li> </ul>	05/2025 – 06/2025
<b>Codetid API (Backend)   Express.js, Flask, GCP, Cloud SQL</b> <i>A robust RESTful API designed for a community blogging platform, developed as a Bangkit 2025 Capstone Project</i> <ul style="list-style-type: none"> <li>• Architected and implemented core backend services, including JWT-based user authentication, data models for posts/comments, and role-based authorization.</li> <li>• Deployed the application to Google Cloud Platform (GCP), managing a Cloud SQL database to ensure data persistence, security, and scalability.</li> </ul>	09/2024 – 01/2025
<b>Dominant Color Picker (Web Tool)   Python, Streamlit, Scikit-learn</b> <i>A data-driven web tool to automatically extract a prominent color palette from any user-uploaded image</i> <ul style="list-style-type: none"> <li>• Applied the K-Means clustering algorithm from Scikit-learn to accurately identify and quantify dominant colors within image pixel data.</li> <li>• Rapidly built and deployed an interactive user interface using Streamlit, enabling real-time image processing and color palette visualization.</li> </ul>	05/2024 – 05/2024
<b>Website KEPO 2024 (Static Web)   Javascripts, HTML, CSS</b> <i>A static informative website for the KEPO 2024 event, designed to be fast, responsive, and easily accessible to participants.</i> <ul style="list-style-type: none"> <li>• Implemented an intuitive, responsive user interface from the design.</li> <li>• Developed interactive features, including dynamic event schedules and university profiles, by providing creative input during the design and development phase.</li> <li>• Ensured seamless adaptability of the website across various devices.</li> </ul>	10/2023 – 01/2024

## 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