



MUHAMMAD RIZKY

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Tanjungpinang, Kepulauan Riau

Master of Informatics graduate with experience as a PHP Programmer and Software Engineer in developing web-based systems within academic and digital product environments. Skilled in Laravel, JavaScript, Next.js, REST API development, and database management, including MySQL and MongoDB. Experienced in developing and maintaining applications, as well as supporting system integration based on business needs. Strong interest in growing in the field of Software Engineering, with additional interest in Product Management and System Analysis. Open to opportunities as a Software Engineer, as well as product-related or academic roles in Informatics or Information Systems

Work Experiences

Vortex Buana Edumedia - Yogyakarta

Nov 2022 - Mar 2024

Junior Software Engineer

Worked at PT Vortex Buana Edumedia, a technology-driven company building digital education and transformation products including Neon Belajar and Neon Uji

- Translated product requirements into epics and user stories for Neon Belajar and Neon Uji platforms
- Designed and managed MongoDB data models based on business requirements
- Built and maintained REST APIs to support communication between frontend and backend systems
- Developed backend services to support application functionality and reliability
- Identified, debugged, and resolved issues across multiple services and stack layers
- Implemented reusable UI components using Nuxt.js based on UX requirements
- Supported development processes including testing, documentation, and release activities in an Agile environment

Universitas Maritim Raja Ali Haji - Tanjungpinang

Jan 2021 - Mar 2022

Programmer

Public maritime university in Tanjungpinang, Kepulauan Riau focused on delivering higher education, research, and digital transformation initiatives

- Developed internal web-based systems using Laravel, including Sipemanis (complaint management), Kukerta (student program management), and Recruitment System (staff recruitment)
- Maintained and enhanced 20+ academic systems to improve system stability and support daily operational activities
- Built REST APIs to support data integration across multiple systems
- Improved system usability through interface updates and feature enhancements
- Contributed to system integration planning and development discussions
- Participated in the development of 5 integrated UMRAH systems

Javan Cipta Solusi - Yogyakarta

Apr 2020 - May 2020

Programmer PHP

IT solutions and business process automation provider delivering custom software and BPM consulting to government and private sectors.

- Developed a dashboard system for Bappeda Probolinggo using Laravel
- Maintained and improved existing systems by fixing issues and adding features
- Automated document workflows using Jasper Reports
- Collaborated with team members to deliver projects within tight deadlines

Javan Cipta Solusi - Yogyakarta

Sep 2019 - Mar 2020

Intern Programmer PHP

IT solutions and business process automation provider delivering custom software and BPM consulting to government and private sectors.

- Developed and maintained web applications using Laravel and JogetWorkflow
- Assisted in debugging and implementing new features across multiple systems
- Collaborated with engineering team members during development processes

Education Level

Universitas Islam Indonesia - Yogyakarta

Mar 2022 - Dec 2025

Masters Informatics, 3.75/4.00

- Thesis: "Opportunities for Implementing Blockchain Technology in Donation-Based Crowdfunding for Philanthropic Organizations in Indonesia to Improve Accountability and Transparency"
- Designed and developed a blockchain-based donation system based on the Blockchain-Based Donation Traceability (BBDT) concept
- Implemented Ethereum smart contracts and designed a hybrid system architecture integrating on-chain (blockchain) and off-chain

- (Next.js, MongoDB) components to improve usability and system performance
- Conducted evaluation with 180+ respondents and 2 philanthropic organizations, achieving 81.9% improvement in perceived transparency
- Publications: “Opportunities and Challenges of Blockchain-Based Donation Crowdfunding Platforms” (SINTA 2) and “Blockchain Implementation in Donation-Based Crowdfunding for Philanthropic Organizations in Indonesia” (SINTA 3)

Universitas Islam Indonesia - Yogyakarta

Sep 2016 - Oct 2020

Bachelor of Informatics, 3.31/4.00

- Developed academic system features using jExcel to improve data input efficiency
- Published a research paper on jExcel implementation in academic systems (AUTOMATA, 2020)

Binar Academy

Oct 2021 - Jun 2022

Certificate in Bootcamp Fullstack Web Developer, 4.90/5.00

- Completed a 6-month intensive full-stack web development program covering Node.js, React.js and Next.js
- Designed and developed RESTful APIs using Express.js and implemented database systems using SQL and ORM
- Built Single Page Applications (SPA) using React with state management and basic SSR concepts
- Applied modern development practices including MVC architecture, authentication, Firebase integration, and CI/CD

Leadership Experience

Himpunan Mahasiswa Magister Informatika UII - Yogyakarta

Jun 2022 - Apr 2023

Vice Head of Student Affairs Division

Student association for Master of Informatics students at Universitas Islam Indonesia

- Facilitated student programs including bootcamps, sports events, English courses, and research webinars.

Lembaga Dakwah Fakultas FTI UII - Yogyakarta

Aug 2018 - Aug 2019

Head of Finance division

Student Islamic organization at the Faculty of Industrial Technology, Universitas Islam Indonesia

- Led a financial division team consisting of 8 members to manage organizational financial activities
- Planned and executed financial programs to support organizational sustainability and fundraising initiatives
- Initiated and managed entrepreneurial activities (Centrispreneur), including product sales and fundraising campaigns
- Managed financial planning and monitored income from organizational activities

Lembaga Eksekutif Mahasiswa FTI UII - Yogyakarta

May 2017 - May 2018

Staff of Social and Religious Division

Official student executive organization at the Faculty of Industrial Technology, Universitas Islam Indonesia

- Supported religious and social programs for students and community
- Taught Quran reading to children through teaching programs
- Assisted Quran literacy training (BTAQ) for university students
- Participated in social and charity programs including Qurban and Ramadan events
- Contributed to content distribution for religious outreach through media platforms

Skills, Achievements & Other Experience

- Modules Taken** (2024): Belajar Dasar Pemrograman Web, Belajar Dasar Pemrograman Javascript
- Modules Taken** (2023): Complete Product Management: Vision, Strategy, and Framework , Cloud Practitioner Essentials (Belajar Dasar AWS Cloud) , Belajar Membuat Aplikasi Back-End untuk Pemula
- Hard Skills:** PHP, Laravel, Javascript, Next.js, Blockchain, MySQL, MongoDB.
- Interest:** Software Engineering, Backend Development, Web Development, Product Management, System Analysis, Blockchain Technology, Web3