

RIZKY SULAEMAN

Jl.Sindangkerta, Kec. Lohbener, Kabupaten Indramayu, Jawa Barat 45252

📞 +62895806770203

✉️ riskisuleman76@gmail.com

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EDUCATION

Politeknik Negeri Indramayu

D4 Rekayasa Perangkat Lunak - **GPA - 3.58**

2021 – 2025

Indramayu, Indonesia

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Network Security
- Database Management System (DBMS)
- Artificial Intelligence
- Web Development
- Android Development

PROJECTS

E-Learning SMK Telematika Indramayu

🔗 | PHP, Mysql, Laravel

2022

- Developed a web-based E-Learning platform to support online teaching activities, featuring interactive modules, quizzes, and exams.
- Implemented a digital attendance system with real-time notifications for parents to improve student attendance transparency.
- Designed an efficient teacher dashboard for streamlined class management, grading, and providing student feedback.

Sistem Pakar Politeknik Negeri Indramayu

🔗 | PHP, Python, Laravel, VueJS, React Native

2022

- Built a web and mobile expert system to assist in the early diagnosis of facial paralysis for students and staff.
- Designed and trained a diagnostic model in Python, seamlessly integrating it with a Laravel backend and VueJS/React Native frontend.
- Created an intuitive UI/UX for both web and mobile platforms to ensure ease of use and accessibility.

Delivery Expedition PT Dwi Dharma Djaya.

🔗 | PHP, Python, Mysql, Laravel, React Native

2023

- Engineered a smart logistics system to optimize coal delivery routes, significantly reducing travel time and operational costs.
- Implemented an algorithm to recommend vehicle types based on cargo weight, enhancing fleet allocation efficiency.
- Integrated the Midtrans payment gateway to facilitate secure, fast, and automated transaction processes.

Smart Link System PT Cybers Blitz Nusantara

🔗 | Python, PostgreSQL, Django, Jquery

2024

- Developed and deployed a corporate financial reporting system fully integrated with the company's Smart Routing System.
- Utilized Docker for containerization and Kubernetes for orchestration to ensure high-availability and system stability in a production environment.
- Enabled secure remote access for all company employees, promoting a flexible work environment.

Multi-Agent System with MCP Context.

🔗 | Python, Flask, Jquery, NodeJS, Langchain

2025

- Designed and built a Multi-Agent System architecture where multiple AI agents collaborate to solve complex tasks.
- Fine-tuned 8 specialized LLM agents (Gemma 3, Llama) using Reinforcement Learning, each with a distinct function.
- Developed a voice and text-based interaction system enabling agents to communicate and cooperate autonomously.

Screening CV Untuk Efisiensi Rekrutmen Karyawan Baru

🔗 | Python, Laravel

2025

- Developed an AI-powered application to automate the CV screening process, aiming to enhance recruitment efficiency and accuracy for HR.
- Implemented a Natural Language Processing (NLP) model to extract key information and match candidate qualifications against job requirements.
- Provided a feature for uploading CVs (text/document) and displayed analysis results on an informative dashboard to aid HR decision-making.

Analisis Sentimen Kinerja Kepemimpinan Prabowo Subianto ↗ | PHP, Python, Laravel 2025

- Implemented a web scraping system in Python to collect public data from social media and news portals regarding the subject.
- Built a sentiment classification model using Natural Language Processing (NLP) to automatically categorize public opinion into positive, negative, or neutral.
- Designed an interactive dashboard with Laravel to visualize analysis results through charts, providing concise insights into public opinion trends.

Inventory and Sales System ↗ | Laravel, React, 2025

- Developed a comprehensive application to streamline inventory management and sales transactions.
- Implemented real-time stock tracking to ensure data accuracy across all user sessions.
- Integrated secure Role-Based Access Control (RBAC) to manage authorization and user permissions.

Crime Reporting System (DKI Jakarta) ↗ | React, Node.js, Express.js, PostgreSQL, Leaflet 2025

- Architected a web-based crime reporting and geospatial visualization system for DKI Jakarta.
- Engineered interactive heatmaps using Leaflet and PostGIS to visualize high-risk zones.
- Enabled anonymous report submission and manual zone mapping features for public safety.

Space Education Mobile App ↗ | React Native, Expo, NativeWind 2025

- Built a cross-platform mobile education app for astronomy using React Native and Expo.
- Designed a modern UI featuring camera scanning capabilities for an immersive experience.
- Implemented an interactive quiz system covering the Solar System and Eclipses to enhance learning.

Neighborhood Marketplace ↗ | Next.js, Node.js, Leaflet, Socket.io, Prisma 2025

- Launched a hyper-local services marketplace connecting neighbors within a 1-2 km radius.
- Developed Progressive Web App (PWA) capabilities to ensure accessibility across devices.
- Integrated interactive maps and real-time notifications to streamline service updates.

EXPERIENCE

PT Cybers Blitz Nusantara ↗ July 2024 - December 2024

Full Stack Software Engineer Bandung, Indonesia

- Worked as part of a team to design and develop a web application that supports income assessment calculations at PT Cybers Blitz Nusantara.
- Implemented efficient computing solutions to manage large volumes of data, using Python, Django, jQuery, Bootstrap, and PostgreSQL in the development of the Smart Link System.
- Received appreciation for successfully creating a software system that improves ease of access, data processing efficiency, and implementation readiness within the company.

TECHNICAL SKILLS

Languages: Python, JavaScript, PHP, C++, Java, Golang, Kotlin.

Developer Tools: Visual Studio Code, OpenAI Codex, Open Manus, Antigravity, Cursor, Windsurf, VS 2019, Android Studio, IntelliJ Idea Ultimate, Claude Code.

Technologies/Frameworks: NestJS, Next.js, Vue.js, Express.js, React Native, Expo, Flutter, Laravel, Django.

EXTRACURRICULAR

KOTAK PENA ↗ 2022 - 2023

Head of Multimedia Division Politeknik Negeri Indramayu

- Ensure that the editing of images, photos, and videos is always directed to the Multimedia Division.
- Ensure that the Multimedia Division has members who are always ready so that the editing of images, photos, and videos can be done professionally.
- Be actively involved in the editing process carried out by members.
- Ensure that all graphic design needs from each division are submitted to the Multimedia Division.

CERTIFICATIONS

- Amazon Web Services Cloud Practitioner - Amazon Web Services (AWS)
- Project Management Associate - Dicoding
- SOLID Programming Principle - Dicoding
- Programming Using HTML and CSS - CodePolitan
- Programming Using JavaScript - CodePolitan
- Programming Using Python - CodePolitan