

# RIO FERDANA SUDRAJAT

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Jakarta Timur, DurenSawit / Malaka Jaya, Jl.Bungarampai IV gang V No.239

An undergraduate student in Informatics Engineering at UIN Sunan Gunung Djati Bandung with a strong interest in software development and machine learning engineering. Actively engaged in learning and exploring new knowledge in technology and programming, believing in the synergy of theoretical understanding and practical experience to thrive in the software development and machine learning fields. Eager to contribute and grow in dynamic technological environments, with a particular focus on building intelligent systems and data-driven solutions.

## PENDIDIKAN

### SMKN 5 Negeri Jakarta

Smk di Machine Engineering

Jakarta, Indonesia

2020 - 2023

- Proficiency in operating machining tools such as lathes, milling machines, and CNC machines.
- Completing various practical projects and internships that enhanced my technical skills and problem-solving abilities in the manufacturing industry.
- Actively participating in an internship program to gain hands-on experience in the manufacturing sector.

### UIN Sunan Gunung Djati Bandung

Sarjana di Informatics Engineering | IPK: 3.62 / 4.00

Bandung, Indonesia

2023 - Sekarang

As an undergraduate student in Informatics Engineering at UIN Sunan Gunung Djati Bandung, I have consistently demonstrated academic excellence, achieving a cumulative GPA of **3.62** over the first three semesters and improving it to **3.83** in the latest semester.

Throughout my studies, I have undertaken various projects that showcase my technical skills and creativity, including:

- Windows Game Development using Java:** Designed and developed a game for a final semester project, highlighting proficiency in object-oriented programming and game mechanics.
- Website Development - GreenV:** Created *GreenV (Green Environment)*, a web blog focusing on environmental education. This platform addresses crucial environmental issues such as plastic waste, global warming, and resource management. Developed using **Laravel**, the website also serves as a platform for environmentally conscious communities to connect and share ideas.
- IoT Smart Home Project:** Developed a smart home system utilizing **ESP32** as the API, integrating IoT technologies to enable efficient home automation and monitoring.

These experiences have strengthened my expertise in programming, web development, and IoT systems, and reflect my commitment to leveraging technology for impactful solutions.

## PENGALAMAN KERJA

### PT Mitra Karya Presisi

CNC Operation, Pegawai Magang

Cibitung, Jawa Barat, Indonesia

Januari 2022 - April 2022

- Proficient in setting up and operating CNC machines for precise manufacturing.
- Conducted detailed inspections to ensure products met strict quality standards.
- Developed a deep understanding of CNC processes, programming, and maintenance.
- Utilized Mastercam software for creating and optimizing machining programs.
- Assisted in packaging finished products, ensuring proper handling and delivery readiness.

## PENDIDIKAN NONFORMAL

### IDCamp 2024

IDCamp X Dicoding

Bandung, Indonesia

Oktober 2024 - Januari 2025

- Explored fundamental concepts of data science, including data processing, statistical analysis, and visualization.
- Learned to efficiently manage and query databases to extract and manipulate data.
- Built a strong foundation in Python programming, focusing on essential syntax, loops, and data structures.
- Gained expertise in data analysis using Python libraries such as Pandas, Matplotlib, and Seaborn.

- Developed a data dashboard using **Streamlit** with a public e-commerce dataset from Brazil, providing insights into sales trends, product categories, and regional performance.
- Learned the basics of machine learning, covering supervised and unsupervised learning, and trained simple models.
- Acquired foundational knowledge of artificial intelligence, including natural language processing and image recognition concepts.

ORGANISASI

**Staff Kastrad**  
*Dema Fst UIN SGD Bandung*

**Bandung, Indonesia**  
2024 - Sekarang

- Organized and led the demonstration in front of the DPR Bandung building to oversee the MK's decision-making process.
- Delivered a speech in the *Saintek Hitam* action, an event aimed at preserving collective memory of past human rights violations during September.
- Conducted in-depth studies on social and political issues, including the 12% VAT discussion, and created content for publication on DEMA FST's Instagram as part of public outreach efforts.
- Held discussions with faculty representatives to address campus facility issues, advocating for improved infrastructure and student resources.
- Participated in discussions with ministries, including the Ministry of Social Affairs, Ministry of Religious Affairs, and Ministry of Agriculture, to propose and advance the *Gerbang Desa* program—an initiative dedicated to community service and empowerment.
- Contributed as a committee member in organizing the Advocacy School program, aimed at equipping students with knowledge and skills in advocacy and leadership.

SKILL

Soft Skill	Leadership and Coordination, Communication and Public Speaking, Collaboration and Teamwork, Problem-Solving and Critical Thinking, Time Management and Organization
Hard Skill	Programming and Development, Data Science and Machine Learning, CNC Machining, Advocacy and Research
Software Skill	Jupyter Notebook, VS Code

BAHASA

<b>Indonesian</b>	<b>English</b>
Proficient	Intermediate