



Firdaus Nuur Rhamadhan

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Summary

Tech-savvy IoT Engineer and Full-Stack Developer (Django & Python) with expertise in AI (Computer Vision). Skilled in hardware-software integration, cloud-based IoT, and scalable web applications. A proactive leader, former KARIMAH General Chairman, with strong problem-solving and teamwork abilities. Passionate about driving AI and IoT innovations to create real-world impact.

Education

2021 – Present | Universitas Kebangsaan Republik Indonesia, Bandung
8th-semester informatics engineering students

2018 – 2021 | SMKN 1 Cimahi, Cimahi
Power Electronics and Telecommunications Engineering

Organizational Experience

Mar 2023 – Dec 2023 | President at KARIMAH AI-Ittihad, Bandung
Led and managed the organization, overseeing programs focused on Islamic studies, leadership development, and student engagement.

2018 – 2021 | Member at Forum Dienul Islam, Cimahi
Actively participated in religious discussions, leadership training, and community service initiatives.

Professional Experience

1-31 Oct 2024 | Internship | BAPPEDA Jabar, Bandung

1. Find a problem and create a solution to one of the problems in the Bappeda office.
2. Develop an IoT-based temperature monitoring device
3. Integrating IoT devices with Blynk and AR devices on Smartphones

Sep 2022 - Feb 2023 | Internship | Makerindo, Bandung

- **Flutter Developer**
 1. Studied Flutter development and implemented UI for the Tehlbu app.
 2. Integrated the app with the backend system for seamless functionality.
- **IoT Engineer**
 1. Developed, tested, and installed various IoT solutions in field projects.
 2. Worked on hardware-software integration for IoT devices.
 3. Provide technical support to users for troubleshooting and system improvements.
 4. Managed component procurement to support project needs.

Jun 2020 - Mar 2021 | Internship | PPTIK ITB, Bandung

- **IoT Engineer**
 1. Develop and refine IoT devices under the guidance of senior engineers.
 2. Test and evaluate device functionality to meet industry standards.
 3. Program IoT devices, including Arduino and ESP, for seamless operation.
 4. Conduct IoT training sessions, sharing knowledge and best practices with learners.

Certificate and Certification

- **Sep 2024 | Seeds for the Futures 2024 Certificate of Completion | Huawei**

Learn the latest technologies such as AI, Cloud Compute, 5g, and Digital Power coupled with developing leadership, problem-solving, and entrepreneurial skills in Shenzhen, China.

- **Oct 2023 | Mabit Karimah Presenter Certificate | Karimah Al-Ittihad**

Being a speaker at the 2023 Mabit Karimah Al-Ittihad event.

- **Oct 2023 | HMIF IT - Learn 2023 Presenter Certificate | HMIIF**

Became a speaker at the IT - Learn 2023 HMIF event by delivering material on the development of IoT.

- **Sep 2023 | Using Python to Interact with the Operating System | Coursera**

Learned how to use Python for system interaction, including file manipulation, task automation, and system data processing.

- **Aug 2023 | Crash Course on Python | Coursera**

Mastered Python fundamentals, including syntax, data structures, and scenario-based programming for problem-solving.

- **Nov 2022 | INTERDISCIPLINARY DESIGN VIRTUAL COURSE (IDVC) | Tanoto Foundation**

Engaged in an interdisciplinary design course, enhancing critical thinking, problem-solving, and innovation skills.

- **Jul 2022 | Building Flutter Apps for Beginners | Dicoding**

Studied the fundamentals of Flutter and Dart to develop modern, responsive mobile applications.

- **Jun 2022 | Introduction to Dart Programming | Dicoding**

Gained proficiency in Dart programming, which is essential for developing Flutter applications.

- **Jun 2022 | Basic Data Visualization | Dicoding**

Applied various techniques to process and present data through charts, tables, and interactive dashboards.

- **Mar 2022 | Architecting on AWS | Dicoding**

Learned cloud architecture principles, system deployment, and scalable solutions on AWS.

- **Feb 2022 | Impact Innovation Incubator | Social Innovation Hub Indonesia**

Participated in a social innovation program, developing technology-based solutions for real-world challenges.

- **Dec 2021 | Cloud Practitioner Essentials | Dicoding**

Acquired foundational knowledge of cloud computing, AWS services, and cloud-based system implementation.

Skill

Soft Skill

- **Leadership & Team Management**

Led and coordinated teams as Chairman of KARIMAH.

- **Problem-Solving**

Strong analytical thinking and troubleshooting skills in software and hardware development.

- **Adaptability & Fast Learning**

Quickly adapts to new technologies and learning environments.

- **Technical Training & Mentorship**

Experienced as an IoT instructor, teaching

Hard Skill

- **IoT Development**

Experienced in integrating hardware and software using ESP32, Arduino, and cloud-based IoT solutions.

- **Full-Stack Development**

Proficient in building scalable web applications using Django & Python.

- **Embedded Systems**

Hands-on experience with microcontrollers, sensors, electronic circuits, and event SBC platforms like Raspberry Pi.

and mentoring students.

- **Communication & Collaboration**

Effectively works in cross-functional teams and explains technical concepts clearly.

- **Time Management**

Efficient in handling multiple projects and meeting deadlines.

- **PCB Design**

Experienced in designing printed circuit boards (PCB) using KiCad.

- **3D Modeling**

Skilled in SketchUp for 3D design and prototyping.

- **Computer Vision**

Skilled in developing AI-driven image recognition and analysis systems, especially using Yolo8.

- **Linux System Administration**

Proficient in Linux as a daily driver, including command-line operations, scripting, and system management.

- **Cloud Computing**

Know cloud architecture and deployment, including cloud-based application development, and use platforms like AWS and GCP.

- **Mobile Development**

Basic understanding of UI/UX design and mobile app development using Flutter & Dart.

- **Data Visualization**

Capable of creating interactive dashboards and analytical reports.

- **Version Control & Collaboration**

Experienced in using Git and GitHub for software development workflows.

- **Database Management –**

Understanding of SQL and NoSQL databases, including PostgreSQL, MySQL, and MongoDB.