

I Dewa Made Adi Kresna

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PROFESSIONAL SUMMARY

Highly motivated and ambitious student with a passion for technology. Proficient in operating Arduino components, robots and coding, with strong problem solving skills. Committed to contributing to the field of software engineering by embracing innovative technologies, specialize on data, computer vision and backend.

WORKING EXPERIENCE

Purchasing and Procurement on Prasetiya Mulya University, Banten

Jan – Mar 2024

Intern Member

- Acquired foundational knowledge in HTML, CSS, and PHP, applying them to real-world projects and improving problem-solving abilities in web development.
- Learned the basics of network and server operations, utilizing tools like AnyDesk, FileZilla, and WinSCP to manage and transfer files securely.
- Designed and developed a Supply Chain Management (SCM) website using WordPress, focusing on organizing the layout of components and content to ensure an intuitive user experience.
- Implemented clear navigation flows and visually appealing design elements to make the platform more engaging and user-friendly.

EDUCATION

Prasetiya Mulya University, Banten

Aug 2023 – Present

Bachelor of Engineering, Software Engineering Undergraduate Program

GPA 3.75 of 4.00

ACHIEVEMENTS

Innofair 2025 in Prasetiya Mulya University, Banten

Mar 2025

Best Innovation in Software Development, Developed Sapa Bengkala, a mobile app promoting Desa Bengkala (North Bali), where residents use Kolok sign language. Implemented a two-way translation feature using the device camera to convert Kolok gestures to text and transform spoken or typed words into animated Kolok signs, supporting inclusive tourism and cultural awareness on Figma.

Innofair 2024 in Prasetiya Mulya University, Banten

Jan 2024

Best Innovation in Software Development, Designed an integrated mobile-based application utilizing Virtual Reality (VR) technology to showcase furniture designs in real time within real-world environments named Cozy Buds on Figma.

Politeknik Negeri Bali IT-Competition, Bali

Dec 2022

3rd Place, Internet of Things Category Built an IoT-based system using ESP32 and the Blynk platform to remotely control physiotherapy equipment.

PROJECTS EXPERIENCE

Tuglo PKM, Banten & Bali

Jan – Sep 2025

IoT Mechanics, Backend Engineer & DevOps

- Designed the hardware architecture of an IoT-based electricity monitoring system using ESP32 and PZEM-004T sensors to measure and transmit power consumption data.
- Developed a backend service using Django with HTTP-based APIs to collect, process, and store energy monitoring data.
- Integrated the backend with a Next.js web application using polling to display real-time electricity usage through a monitoring dashboard.
- Deployed the full system to the school's cPanel server, configuring the production environment to ensure stable public access.

Maggotin, Banten & Bali

Jan – Sep 2025

IoT Mechanics, Backend Engineer & DevOps

- Designed and implemented an automated maggot cultivation system as the IoT engineer, integrating sensors and actuators for real-time monitoring and control.
- Built and deployed the backend using Django with Nginx, ensuring stable API performance.
- Collaborated with the mobile team to integrate Flutter applications with the backend APIs for seamless mobile interaction.

Sparklore, Banten

May – Des 2025

Backend Engineer & DevOps

- Developed the backend of an e-commerce website using Django, implementing scalable database models using PostgreSQL and REST APIs.
- Deployed the application to a production server using Nginx and Gunicorn, configuring a secure and reliable environment for public access.

Re-Design Mobile Banking BCA, Banten

May – Jul 2024

Software Engineering & UX Researcher

- Conducted secondary research and user analysis to identify accessibility challenges in mobile banking applications.
- Designed an improved user interface focused on accessibility and implemented the prototype using the Flutter framework.
- Performed usability testing with visually impaired users to evaluate real user interactions and gather accessibility insights.
- Refined the application based on testing results and presented the improved solution and findings to Bank Central Asia (BCA).

AnyPhysio: IoT-Based Physiotherapy Device, Bali

Aug – Oct 2022

IoT Coder and Mechanics

- Wrote, tested, and debugged code using Arduino and setup Blynk IoT interface to project specifications.
- Assemble and integrate robot components, including mechanical, electrical, and electronic components, according to design specifications

LANGUAGES AND SKILLS

- Languages: Bahasa Indonesia (Native), English (Conversational).
- Programming: Python (Intermediate), Go/Golang (Currently Learning), C# (Basic), JavaScript (Basic).
- Backend & Web Development: Django, REST API Development, PostgreSQL, Nginx, Gunicorn.
- IoT & Embedded Systems: ESP32, Arduino, Microcontroller Programming, Sensor & Actuator Integration.
- Tools & Platforms: ChatGPT, Microsoft Excel (Excel Skills for Business Specialization – Macquarie University, Coursera), Microsoft PowerPoint, Microsoft Teams, Canva, CapCut.
- Interests: Artificial Intelligence (AI), Machine Learning, Computer Vision, Database Systems, API & Backend Development.