RIO JUNIYANTARA PUTRA

Full Stack Developer

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SUMMARY

Full Stack Developer with over 6 years of experience (2018–present) in end-to-end development of web and mobile applications. Proficient in frontend technologies (React, Next.js, Flutter, Tailwind CSS) and backend development (Node.js, JavaScript, PHP, Go, Laravel), with strong expertise in IoT, blockchain, and CI/CD pipeline optimization. Experienced in building scalable solutions for the education sector (Udayana University's USDI Website, Mobile Attendance App) and innovative IoT/blockchain projects. Skilled in using Docker and Podman for containerization and service orchestration, MySQL database management, and Agile collaboration with cross-functional teams.

PROFESSIONAL EXPERIENCE

Universitas Udayana - Bali, Indonesia
Full Stack Developer (September 2018 - present)

- **Mobile Application Development & Authentication Systems**
  - *Campus Mobile Application:*
    - Designed UI/UX and developed a **cross-platform mobile app (Android/iOS)** using Flutter for academic services, attendance tracking, and document management, adopted by **3,000+ staff**.
    - Integrated RESTful APIs to enhance user engagement and streamline data synchronization.
  - *Sistem Single Sign-On (SSO)*:
    - Contributed to building a **Single Sign-On (SSO)** system using Keycloak, integrating **10+ campus services** (e-learning, digital library, attendance systems).
- **Web Development & Automation**
  - *Website USDI*:
    Developed the USDI institutional website using Laravel and MySQL, featuring news, project updates, event calendars, and a CMS for real-time content management.

  - Telegram notification bot:
    - Built a **Telegram notification bot** with Node.js and KubeMQ, automating **500+ daily alerts** for letters/complaints, reducing admin workload by **70%**.
    - Containerized deployments using Podman and optimized CI/CD pipelines with GitLab, cutting update deployment time from **30 minutes to 5 minutes**.

PT MITRA JARINGAN GLOBAL - Depok, Indonesia
Field Engineer (Jan 2016 - Jan 2017)

- Network Installation and Configuration
  - Installed and configured over 120 access points per year with VLAN and RADIUS authentication.
  - Installed and configured Mikrotik Router Boards at more than 50 Alfamart Bali branches, including the POS system VPN setup.
- Maintenance and Troubleshooting
  - Performed routine maintenance and configuration backups for the public networks of AQUA and YAMAHA.

- Managed network maintenance and handled disruptions at Alfamart Bali.

EDUCATION

Udayana University (2021 - 2023)
Master of Science in Electrical Engineering - Cumulative GPA 3,97

Udayana University (2011 - 2018)
Bachelor of Science in Electrical Engineering - Cumulative GPA 3,06

CERTIFICATIONS

- **IoT Specialist Certification** – Indobot Academy[link]
- **Mastering Flutter 2.0: Travel & Flight App Development** – BuildWithAngga[link]

SKILLS

- **Programming**: PHP, JavaScript, Go
- **Databases**: MySQL, SQLite
- **Frameworks/Tools**: Laravel, React, Tailwind CSS, Docker, Podman
- **Specializations**: IoT, Blockchain, RESTful APIs, CI/CD

RELEVANT PROJECTS

Udayana Mobile Application(Android and IoS Developer)
- **Technologies:** Flutter, Dart, Rest API
- **Contributions:**
  - Developed a cross-platform application for over 3,000 users, featuring GPS tracking, attendance, and correspondence functionalities.
  - Integrated APIs for attendance, mail, news, and events with the backend system.
- **Link:** App Store | Play Store

WEB USDI(Full Stack)
- **Technologies:** Laravel, Mysql, Rest API, Nginx
- **Contributions:**
  - Developed a CMS for publishing news, events, meeting room reservations, and more, featuring multi-admin capabilities.
  - Deployed the application on an on-premise server using the Nginx web server.
- **Link:** USDI WEB

Udayana University SSO (Web developer)
- **Technologies:** Keycloak, Tailwind.
- **Contributions:**
  - Developed an SSO system using Keycloak, integrating it with over 10 campus services.
  - Designed the authentication page UI and implemented it using Tailwind CSS.
- **Link:** Web

USDIBOT (Node.js, Telegram API, KubeMQ)

- Automated over 500 daily notifications via Telegram by integrating with SSO and KubeMQ.
- Deployed the solution using containerization with Podman → Lihat Demo.

Techinfaq (Full Stack)
Transparent IoT-Based Fundraising System.
- **Teknologi:** Laravel, Reactjs.

- **Kontribusi:**
  - Developed an integrated system combining Laravel for the backend, React.js(inertia.js) for the admin dashboard, and ESP32-based donation box sensors.
  - Implemented MQTT protocol to enable real-time communication between IoT devices and the platform, ensuring transparent and efficient donation tracking.
- **Link:** [Web](#)