Rakyan Pangrukti Wibana

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Sleman, Daerah Istimewa Yogyakarta, Indonesia

Computer Science graduate from Universitas Gadjah Mada with hands-on experience in software development, cloud infrastructure, and technical problem-solving. Experienced in developing REST APIs, databases, microservices, and cloud-based services through internships and technical projects, including the migration of a production payment system to Laravel and the development of backend services on Google Cloud. Also experienced in collaborative projects involving AI-powered applications and real-time monitoring systems, where technical solutions were developed to address practical needs. These experiences have strengthened my ability to troubleshoot technical issues, adapt to different technical environments, and work effectively across teams while applying technology to solve practical problems in real-world settings.

Education

Universitas Gadjah Mada **Aug 2022 – Jul 2026**

- Bachelor of Computer Science (S.Kom) – GPA 3.61
- Relevant Subjects: Cryptography and Information Security, Algorithms and Data Structures, Artificial Intelligence, Cloud Computing
- Completed a 50-day community development program (KKN-PPM) in Pulau Obi, Halmahera Selatan, Maluku Utara

Experience

PT Solusi Kampus Indonesia (eCampuz) **Mar 2025 – Jun 2025**
Software Developer Intern

- Reduced transaction inconsistency risk in a production payment system by migrating the legacy API to Laravel, redesigning the architecture around the MVC pattern and implementing commit/rollback mechanisms to ensure data consistency across payment and reversal operations involving sensitive financial and personal records.

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka **Sep 2024 – Jan 2025**
Cloud Computing Cohort

- Collaborated with a 7-member cross-functional team to build Sign Master, an AI-powered gesture-recognition app that helps the Deaf and hard-of-hearing community communicate with their families, breaking down communication barriers and supporting accessibility and inclusion.
- Designed structured modules, gamified quizzes, and certifications to also support sign language learners and professionals (educators, customer service); completed instructor-led training in Google Cloud infrastructure.

OmahTI UGM (Organisasi Mahasiswa Ahli Teknologi Informasi) **Mar 2024 – Jan 2025**
Backend Developer

- Developed and maintained REST APIs, databases, and microservices as part of ongoing backend development projects; collaborated with peers to troubleshoot and resolve technical issues across backend systems.

Himakom UGM (Himpunan Mahasiswa Ilmu Komputer) **Sep 2022 – Dec 2023**
Staff of Interest and Talent

- Organized events focused on skill development and networking opportunities for students; collected participant data and coordinated student involvement in academic and professional competitions.

Jogja Information Technology Session (JOINTS) **Jan 2023 – May 2023**
Public Relations

- Coordinated with internal and external stakeholders throughout the event planning process to ensure smooth execution; managed 10+ media partners to strengthen event visibility and cross-organization collaboration.

Projects

Explainable AI for Phishing Detection: Cross-Model SHAP Validation (Undergraduate Thesis) **Jul 2025 – Jul 2026**

- Assessed the reliability of model explanations for phishing detection using a custom Monte Carlo SHAP implementation (M=25) across Random Forest, XGBoost, and LightGBM on an 11,256-sample dataset; identified 10 consistently important features via Spearman correlation and Jaccard similarity.
- Achieved 88.5% feature reduction with minimal accuracy loss and up to 2.4x inference speedup.

Payment Gateway API Migration to Laravel (Professional Project) **Mar 2025 – Jun 2025**

- Improved reliability of a business-critical payment process by migrating the legacy API to Laravel and rebuilding core endpoints for inquiry, payment, and transaction reversal.
- Tested and validated all endpoints using Hoppscotch prior to integration, ensuring reliable request handling in a live production environment.

Sign Master: Sign Language Learning & Communication App (Bangkit Capstone) **Oct 2024 – Jan 2025**

- Supported accessibility for the Deaf and hard-of-hearing community by building backend cloud services (Auth, Material & Quiz, Text-to-Motion, Certificate Generator) on Google Cloud Run with PostgreSQL, as part of a 7-member cross-functional team.

Hybrid Drone-Rover: Pick-and-Drop Monitoring & Control System **Apr 2024 – Oct 2024**

- Co-developed a hybrid drone-rover system for automated pick-and-drop operations with a 13-member team, building a web-based dashboard for real-time monitoring and control; the project was showcased at MIPA EXPO 2024; separately, the team was independently granted a Simple Patent (Paten Sederhana) by Indonesia's Directorate General of Intellectual Property (DJKI) for the project.

Skills

Programming Languages : Python, PHP, JavaScript, HTML, CSS

Tools / Databases: VS Code, Git, GitHub, SQL, MySQL

Productivity Tools: Microsoft 365 (Excel, Word, PowerPoint), Google Workspace

Languages: Bahasa Indonesia (Native), English