WIDIANA ANGGREANI RAHWAL

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SHORT PROFILE

Software Developer with experience in full-stack development, particularly using Django, Flutter, and Laravel. Expertise in building scalable web applications, optimizing business processes through automation, analytical dashboards, and integrating complex systems. Possess cross-platform troubleshooting skills with a background in Informatics and QA.

WORK EXPERIENCE

Software Developer   **January 2024 – Present**
PT. Sila Teknologi Utama

Key Achievements:
- Automate oil and gas well monitoring systems replace manual processes and increase the speed of data analysis.
- Developing an integrated ticketing and payment platform that increases customer engagement and transaction volume.
- Optimizing backend architecture and system security to improve code scalability and maintainability.

Project Details:
A. Development of Industrial Automation & Monitoring System (Client: Pertamina Hulu Mahakam)
- Built an integrated dashboard and toolbox with Prosper (OpenServer & pywin32) to automate well monitoring, replacing a manual Excel-based system.
- Designing and developing custom interactive charts using Chart.js for Gas (MMscfd), Oil (BOPD), and sand risk assessment data visualization allows for faster problem identification.
- Designing Entity-Relationship Diagrams (ERD) for consolidating multiple databases into a centralized data warehouse to improve data structure and ease of control.

B. Website Feature Development (Django)
- Optimize the authentication system by implementing OOP principles, Role-Based Access Control (RBAC), and automatic activation token delivery via email, thereby increasing the security of the user registration cycle.
- Developed a real-time chat feature using Django Channels, ASGI, and Redis to support stable and responsive two-way communication.
- Developing a complete payment module (OTS, QRIS, EDC, Gopay) with Midtrans integration as well as a voucher and promo system that contributes to increasing transactions.
- Developing a scheduler with django-crontab to automate daily data synchronization and sending notification emails (alarms, transaction confirmations).
- Redesigning several pages and developing several other supporting features.
- Develop a patient registration module by integrating a queuing system, barcode, and online forms, reducing registration time and minimizing input errors.

C. Mobile App Development & Integration (Flutter)
- Design and create UI/UX designs for applications.
- Develop Flutter applications and REST APIs to ensure reliable real-time data synchronization for transactions, inventory, prices, tickets, and other data.
- Developing medical sample identification by developing a barcode-based labeling system that can be scanned to instantly display patient data.

D. Development of E-Learning & Assessment Systems
- Design and build a secure and multi-user Exam System Website, with restricted student access via Safe Exam Browser to prevent cheating.
- Designing and building an automatic assessment module for various types of questions and implementing a weighting system and question difficulty level that is automatically calculated based on the percentage of student answers.

E. Training & Documentation
- Provide system usage training to End Users.
- Develop clear and structured End User Documentation (EUD).

Software Quality Assurance   **October 2023 – December 2023**
PT. Mahakarya Inovasi Bangsa
- Conduct User Acceptance Testing (UAT) and System Integration Testing (SIT) on the Laravel website and compile documentation of test results.
- Perform bug analysis, communicate findings to the development team, and create comprehensive test reports with Trello.

EDUCATION & TRAINING

Kalimantan Institute of Technology   **2019 – 2023**
Bachelor of Informatics, 3.76/4.00
- Developing an end-to-end ITK Internal Quality Assurance Information System by implementing the Personal Extreme Programming method, using Laravel and MySQL to facilitate data collection and reporting of academic accreditation.
- Build various learning projects to master full-stack development using Laravel (backend), React.js (frontend), and MySQL (database).
- Technical: PHP, Laravel, MySQL, React.js, VirtualBox, Docker (Basic).
- Self-Development: Participating in leadership and organizational management training (LKMM Pra-TD, LKMW) as well as scientific reasoning training (PKTI) to hone soft skills.

IDCamp 2024   **September 2024 – May 2025**
Multi-Platform App Developer
- Have a foundation in Object-Oriented Programming (OOP) and a commitment to writing clean code through the application of best practices and effective debugging techniques.
- Skilled in application development using Flutter, including responsive UI/UX design, state management implementation with Provider, and reliable REST API integration.

Google Rises 2022   **February 2022 – July 2022**
Android Developer Learning Path
- Developed DentsHealth, a dental health diagnostic application built with Kotlin and utilizing Natural Language Processing (NLP) to analyze user complaints and cloud computing for Machine Learning model deployment to produce automated detection of dental and oral problems.
- Learn the hard skills needed to create Android applications such as learning the Kotlin programming language, Android application fundamentals, UX design, SOLID programming principles and the OOP paradigm.
- Learn soft skills needed in the world of work such as time management, adaptability, and critical thinking as well as English language skills both verbally and in writing.

ORGANIZATIONAL EXPERIENCE

Informatics Student Association   **September 2020 – February 2021**
Information Media Staff
- Designed HMIF's logo, content and Instagram feed using Adobe Illustrator and CorelDraw.
- Participated as a committee member in the Election of the Chairperson of the Informatics Students Association (HMIF).
- Participated as a committee and prepared a design training event with CorelDraw for Informatics students.

SKILLS

- **Programming language:** Python, Dart, JavaScript (jQuery), PHP
- **Framework:** Django, Flutter, Laravel
- **Database:** PostgreSQL, MySQL, Oracle SQL
- **Development Tools:** Git, Postman, Docker (Basic), VirtualBox, XAMPP, Laragon
- **Design & Collaboration Tools:** Figma, Draw.io, Miro, Trello
- **Front-End Tools:** React.js (Basic), Bootstrap, HTML, CSS, Chart.js
- **Non**-Technical: Analytical thinking, time management, teamwork & collaboration, adaptability, problem solving.
- **Language**: Indonesian (Native), English (Intermediate | IAET ITK: 520, TOEFL Prediction: 610)

OTHER ACHIEVEMENTS & EXPERIENCES

- **Copyright & Certificate**i: PsyCare Software Copyright, 15+ technology certifications from Dicoding, IDCamp, Google Bangkit, and other programs including Flutter, Android Development, Dart, SOLID Principles, and Fundamental AI.
- **Other Projects**: CISA (Covid-19 Information and Self Check Up Application), PetYourself, PsyCare, SIKMA (KP and Internship Information System), DentsHealth, Restaurant App, SIMJAMU (Quality Assurance System), LeafPad, Gallery App.
- **Volunteer Work**: Mangrove Warrior 2025, Lestravida Balikpapan Batch 1.