

ALBERTUS RIMBA

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PROFILE

Computer Science student at President University with hands-on full-stack development experience across Flutter, Laravel, Firebase, and Python. Currently leading a 4-person team as Project Manager and Full-Stack Developer on OxyWatch, a health-monitoring mobile app integrating wearable data with a rule-based AI risk engine, alongside a solo project (Aibert Smart Hospital) applying face-recognition and rule-based access control. Combines technical delivery with team leadership from Student Ambassador and event-organizing roles.

EDUCATION

President University Candidate for Bachelor of Science in Computing

GPA: 3.64/4.00

- Honors: Jababeka Scholarship
- Activities: Student Ambassador Presuniv (Team Leader); PRESERVE – General Resource Dept.; PUSERVE & RESC – Multimedia Dept.

PROJECTS

Team lead & Full-Stack Developer – OxyWatch App, Client Project, Faculty of Medicin PU

2026 - Present

Flutter, Firebase Auth/Firestore, Python FastAPI, Figma ([Link: https://github.com/deadeaa/OxyWatch.git](https://github.com/deadeaa/OxyWatch.git))

- Leading a 4-person team building a multi-role (Parent/Doctor) mobile health app with clearly divided screen and service ownership.
- Built core app functionality end-to-end as the team's full-stack developer: authentication and navigation flow (Flutter) on the front end, and Firebase Firestore/Python FastAPI integration on the back end, resolving session and navigation stability issues.
- Directed integration of a rule-based AI engine classifying hypoxemia risk (Normal/Waspada/Bahaya) from SpO₂ and heart-rate thresholds, and validated wearable (Health Connect/Galaxy Fit3) data integration on physical devices.

AI Developer (Solo Project) – Aibert Smart Hospital

2025 - 2026

Python, Face Recognition, Rule-Based Access Control

- Built a role-based hospital management system using Python, combining an AI face-recognition module for user authentication with a rule-based engine to enforce role permissions.
- Restricted clinical actions by role — e.g., staff accounts cannot perform patient diagnosis, which is gated exclusively to doctor accounts via the rule-based logic.

Full-Stack Developer (Solo Project) – TenantApp

2025 - 2026

Flutter, Dart, Firebase ([Link: https://github.com/albertusrimba/TenantApp.git](https://github.com/albertusrimba/TenantApp.git))

- Built a mobile app end-to-end solving a real campus problem: a two-way listing system connecting event organizers with tenants.

Front-End & Back-End Developer – PUMPS (Student Marketplace)

2024 - 2025

JavaScript, PHP/Laravel, MySQL ([Link: https://github.com/albertusrimba/PUMPS.git](https://github.com/albertusrimba/PUMPS.git))

- Built a web marketplace for students to list and sell goods, replacing informal group-chat-based selling with structured listings and order tracking.
- Designed the MySQL relational database schema for listings, users, and orders.

TECHNICAL SKILLS

- Web Development: JavaScript, PHP/Laravel, HTML/CSS, REST API Integration
- Database: MySQL, Firebase Firestore — relational schema design
- Languages: Python, JavaScript, Dart, PHP
- Mobile & IoT: Flutter, Android Studio, Firebase, Health Connect API, IoT sensors & automation
- AI/ML & Simulation: Face Recognition, Rule-Based Systems, VR Simulation
- Design & Tools: UI/UX Design (Figma), Git/GitHub, Google Workspace, Microsoft Office

CERTIFICATIONS & TRAINING

- Memulai Pemrograman dengan Python – Dicoding
- Belajar Visualisasi Data – Dicoding
- Student Ambassador Leadership Program – President University
- Junior Web Developer (Vocational School Graduate Academy) – Digital Talent Scholarship (2025)

LANGUAGES

- Bahasa Indonesia (Native); English