

JAKA KELANA WIJAYA

Full-Stack Developer (MERN) · Cloud & DevOps

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SUMMARY

Computer Engineering student at Telkom University (expected graduation 2026, currently in final thesis/graduation period) with hands-on experience building full-stack web applications using the MERN stack (MongoDB, Express, React, Node.js). Proven ability to take a project from development through to production, including containerization (Docker), CI/CD pipelines, and self-managed cloud infrastructure (AWS, VPS), with a strong focus on application security (JWT auth, RBAC, SAST/DAST). Solo-built and deployed DentalCare, a production-ready clinic management platform, end-to-end.

TECHNICAL SKILLS

- Frontend: React, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, React Hook Form, Zod
- Backend: Node.js, Express.js, RESTful API design, JWT Authentication, Swagger / OpenAPI
- Database: MongoDB, Mongoose, MySQL
- Cloud & DevOps: AWS (EC2, S3, RDS, IAM, VPC, Route 53, CloudWatch, SNS), Docker, Jenkins, CI/CD, Kubernetes basics
- Application Security: JWT/RBAC, Helmet, rate limiting, NoSQL-injection prevention, OWASP ZAP (DAST), Bandit (SAST)
- Monitoring & Observability: Prometheus, Grafana, Jaeger, OpenTelemetry
- Other: Git/GitHub, Python, Laravel
- Languages: Indonesian (native), English (professional working proficiency)

FEATURED PROJECT

DentalCare: Clinic Management System

Solo Project · 2026

Live demo: smiledental.my.id | GitHub: github.com/JakaxKato/dentalcare-clinic

- Solo-built a production-ready, full-stack clinic management platform (MongoDB, Express, React, Node.js) end-to-end, from system design and data modeling through deployment
- Designed role-based access for 4 user types (guest, patient, dentist, admin) covering online booking, appointment scheduling with automatic conflict detection, patient medical records, e-prescriptions, and PDF invoicing
- Built an interactive digital odontogram (FDI dental charting) used by dentists for diagnosis and treatment notes
- Hardened application security: JWT authentication with role-based access control, rate limiting, NoSQL-injection sanitization, Helmet security headers, CORS allowlisting, and hashed password-reset tokens
- Self-deployed to production: containerized the backend with Docker on a self-managed VPS (Tencent Cloud), configuring Nginx as a reverse proxy with SSL via Let's Encrypt; frontend on Vercel and MongoDB Atlas as the managed database, with Swagger/OpenAPI documentation and CSV export reporting
- Delivered as an installable PWA with offline support and dark mode

OTHER PROJECTS

Full-Stack Web Fundamentals

RevoU Software Engineering Program

- Built a responsive static website (HTML, CSS, JavaScript) with form validation and cross-page navigation
- Practiced Git collaboration workflows including pull requests and basic UI/UX principles

Cloud Infrastructure & DevOps Practice

AWS, Jenkins, Docker, Kubernetes

- Deployed and managed AWS services across compute, storage, database, and networking: EC2, S3, RDS (MySQL), IAM, VPC, Route 53, and CloudWatch/SNS monitoring with cost estimation
- Built CI/CD pipelines in Jenkins integrating SAST (Bandit) and DAST (OWASP ZAP) security scanning, and set up an observability stack (Prometheus, Grafana, Jaeger, OpenTelemetry) for a Flask application
- Practiced offensive/defensive security fundamentals (SQL injection, password cracking, Metasploit) in a controlled lab environment (Seculab Study Group)

EDUCATION

Bachelor of Engineering in Computer Engineering

Expected Graduation 2026

Telkom University • GPA: 3.38/4.0

Relevant Coursework: Web Programming, Data Structures & Algorithms, Databases, Operating Systems, Computer Networking, Backend Programming, Cloud Computing, System Security, Virtualization & Containers, CI/CD & DevOps Fundamentals

CERTIFICATIONS

Simulasi Kerja (SIM-K) Full-Stack Web Developer - SIM-K (2024) • Intro to Software Engineering - RevoU (2025) • Seculab Study Group - Security Laboratorium (2023)
Management Server AWS - Digital Skola (2025) • DevOps Engineer - Digital Skola (2025) • Mini Bootcamp: AWS Cloud - Digital Skola (2025)

ORGANIZATION & LEADERSHIP

Public Relations, Tel-U Esports Committee *Telkom University · 2023*

- Acted as liaison between the organizing committee and participating universities, coordinating a competitive esports event across institutions

Committee Member, Medical & Food Ordering (MFO), Department Orientation (Osjur)*Telkom University · 2025*

- Coordinated medical and food logistics for new student orientation, ensuring timely distribution and readiness of resources