FATTAH CHAERUL MAJID

+6289681928200 | fattahmajid25@gmail.com | https://portofolio-fattah-cm.vercel.app/ | https://github.com/0011fattahcm/

Wonokerto, Pekalongan Regency, Central Java, Indonesia

SUMMARY

Versatile and impact-driven Software Engineer with 1+ year of professional experience in building fullstack web applications using MERN Stack, PHP, and modern development tools. Adept at designing scalable architectures, implementing robust backend systems, and delivering seamless API integrations. Experienced in building cloud-based platforms, digital payment systems (QRIS), and optimized databases. Strong technical foundation in React.js, Next.js, Node.js, and MongoDB, with hands-on experience deploying on Amazon Web Services. Passionate about crafting high-quality software that enhances user experience, supports operational efficiency, and delivers measurable value. Currently expanding expertise into interactive simulations and Android based educational applications.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, PHP, C#, HTML5, CSS3, SQL
- **Frameworks & Libraries:** React.js, Next.js, Express.js, Laravel, Bootstrap, Tailwind CSS
- **Mobile & Game Development:** Unity3D, Vuforia Engine, Android SDK, Blender
- **Databases:** MongoDB, MySQL
- **Cloud Platforms & DevOps:** Amazon Web Services EC2, Google Cloud Platform
- **Tools & Environments:** Git, Postman, Figma, SketchUp, Adobe Illustrator, Adobe Photoshop, VS Code, Unity Hub
- **Core Concepts:** REST API, MVC Architecture, CRUD Operations, Responsive Web Design
- **Other Skills:** UI/UX Design, Version Control, Agile Methodologies

RECENT PROJECT EXPERIENCE

CV Builder JECA – Web Application (2025)

Tech Stack: MongoDB, Express.js, React.js, Node.js, ExcelJS, LibreOffice, JWT, TailwindCSS, Xendit, AWS EC2

- Architected a scalable MERN application for generating standardized Japanese CVs with real time rendering, modular multi step form workflows, and automated export pipelines (Excel & PDF).
- Implemented secure JWT based authentication with role based authorization, email verification, password reset flows, and hardened API endpoints following OWASP recommendations.
- Built highly decoupled and reusable form components with schema-driven validation, dynamic field reactivity, and optimized state management to reduce UI latency and input errors.
- Engineered a LibreOffice CLI automation pipeline for Excel to PDF conversion using asynchronous job queues, file watchers, and I/O optimized routing to prevent race conditions and long-block operations.
- Developed and deployed an admin analytics system (user metrics, export statistics, payment logs) on AWS EC2 using PM2, Nginx reverse proxy, database indexing, API refactoring, and QRIS payment integration with polling + webhook for automated quota management.

Nichirin JFT Simulation – Japanese Test Simulation Platform (2025)

Tech Stack: Next.js, Node.js, Express.js, MongoDB, JWT, TailwindCSS, Xendit QRIS, JWT, AWS EC2

- Built a full stack Japanese test simulation platform using Next.js and Express.js with four structured exam sessions, a global 90 minute timer, randomized question sequencing, sequential session control, and automated scoring logic.
- Implemented a subscription access system integrating QRIS dynamic payment generation, real time payment polling, and webhook verification, supported by a persistent Payment History model for transaction states and user activation.
- Developed secure JWT based authentication with protected API routes, session validation, input sanitization, and backend hardening aligned with OWASP recommendations to ensure exam integrity and data security.
- Designed optimized MongoDB schemas for question banks, user responses, scoring logs, and subscription records, utilizing indexing and aggregation pipelines to support fast queries and admin-side analytics.
- Built an admin dashboard for managing users, questions, results, payments, and announcements, and deployed the platform to AWS EC2 using PM2, NGINX reverse proxy, and environment-based configuration ensuring high performance and reliability.

WORK EXPERIENCE

Software Engineer & Digitalization

PT Giken Kaizen Educenter, Serang Regency

August 2024 - Present

- Led the development of both internal applications (employee management, attendance tracking, and performance reporting) and public-facing systems to support organizational operations and external engagement.
- Designed and implemented an interactive information portal for clients and partners to securely access service data and documentation in real-time.

- Developed and deployed custom backend modules using PHP and JavaScript, ensuring reliability, scalability, and maintainability.
- Created high-quality digital assets and visual content to support branding, marketing, and digital communication needs.
- Managed the company's social media platforms, maintaining consistent branding through scheduled content and strategic planning.
- Collaborated closely with internal stakeholders to align system development with operational workflows and marketing objectives.

IT Support Intern
Department of Marine Fisheries and Livestock – Batang Regency
March 2023 – June 2023
- Provided support for the configuration, maintenance, and troubleshooting of local computer systems used for day to-day administrative operations.
- Performed accurate data entry and validation for internal government databases, ensuring data integrity and consistency.
- Assisted in the documentation of technical SOPs, and supported regular report generation tasks for internal departments.
- Collaborated with civil servants and IT staff to ensure smooth operation of IT infrastructure and user accessibility.

EDUCATION

Widya Pratama Institute
Bachelor of Computer Science | GPA: 3.88 / 4.00
September 2020 – March 2024
- Developed an Auto Engine Simulation Android App as a final project, visualizing the internal mechanisms of gasoline and diesel engines using C#, SketchUp 3D models, Blender animations, and Vuforia AR technology via Unity3D. The app included real-time interactions and educational features for engine learning.
- Completed a Student Exchange Program at Halu Oleo University (2022), where I collaborated on a group project to develop an IoT based flood detection system using sensors and microcontrollers.
- Participated in a Technopreneurship Project focused on digital marketing strategies for a local apparel business, including landing page design, SEO fundamentals, and market validation.

COURSES AND CERTIFICATION

- JuaraGCP Cloud AI Study Jam – Google (2024)
- Software Engineering Course – Northeastern University China, ICE Institute (2023)
- Cyber Security Course – Telkom University, ICE Institute (2023)
- Cisco CCNAv7 – Cisco Networking Academy (2022)
- TOEFL ITP – Score: 437 (2023)

ORGANIZATION

Google Developer Student Club (GDSC) – Esa Unggul University
Member | 2024
- Participated in hands-on technical workshops focused on React.js, Firebase, and Git fundamentals.
- Engaged in team-based coding sessions and mini hackathons to strengthen skills in full-stack development.
- Contributed to group discussions and projects involving web architecture, API integrations, and UI/UX design improvements.

1000 Startup Digital Bootcamp – Southeast Sulawesi
Hipster (UI/UX Designer Role) | 2022
- Applied design thinking and user-centered design principles to build wireframes and interactive prototypes using Figma.
- Collaborated in a startup team with Hacker (developer) and Hustler (business) roles to validate MVP ideas and business models.
- Designed intuitive user interfaces for startup pitch projects, aligning design outcomes with user feedback and product goals.

AWARDS

- 4th Place Frontend Series Web Development Competition, GDSC Esa Unggul University, 2024
- 3rd Place Infographic Design Face of Marcomm, FISIP Sultan Ageng Tirtayasa University, 2023
- 1st Place Poster Design Tirtanium, Tirta FM Sultan Ageng Tirtayasa University, 2022