

Fauzan Putra Sanjaya

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Information Systems student with a strong interest in applying technology to support and optimize large-scale business operations. With a background in mobile and full-stack development, I have experience building and integrating AI-powered services while ensuring reliable system performance. I am a collaborative problem-solver focused on delivering efficient and high-quality technology solutions to support competitive advantage and operational excellence within a corporate environment.

EDUCATION

Universitas Indonesia

Bachelor's Degree : Major in Information System - GPA 3.71/4.00

Depok, Indonesia

2023 - 2027

- Relevant Coursework :

Data Structures & Algorithms, Databases, Enterprise Application Programming, Big Data Management, Data Communication Networks, Security-Driven Software Development, IS Analysis and Design, Computer Vision, Social Media Analytics, Accounting & Enterprise Information System, Introduction to Operating Systems.

WORK EXPERIENCE

RISTEK Fasilkom UI

Depok

Mobile Developer

February 2025 – Present

- Contributed to the full development lifecycle of 3+ mobile applications, including external client projects and internal initiatives. Gained hands-on experience through internal learning sessions and capstone projects, applying industry-standard practices in a collaborative team environment.
- Led development of the 'Study Buddy' internal capstone project, a social app for Fasilkom UI students, and built a Twitter-like status/post feature to drive community engagement.

TVRI Nasional

Depok

Mobile Developer - <https://play.google.com/store/apps/details?id=com.tvri.citizenjournalism&hl=en>

June 2025 – December 2025

- Engineered core features for the TVRI Citizen Journalism Flutter app, notably developing and implementing a real-time chat service using WebSockets to enhance user interaction. Managed the end-to-end deployment process for the TVRI app, ensuring successful submission, compliance, and release on the Apple App Store

Techno Glow Innovation

Cikarang

Software Engineer Intern - <https://dke-ai.iziapp.id/technobsim>

July 2025 - August 2025

- Developed and integrated AI-powered services for a B2B skincare simulator, automating workflows with Zapier, implementing voice agent (ElevenLabs) and a PubMed API pipeline to scientifically validate product claims.
- Successfully featured at the CosmoBeauté 2025 exhibition.
- Optimized the Django backend and AI content generation pipeline, reducing API response latency to support real-time formula output.

Faculty of Computer Science

Depok

Teaching Assistant of Principles of Information Systems

January 2025 – June 2025

- Selected for a competitive role with a 9% acceptance rate, collaborating with 11 teaching assistants to support 200+ students, grading assignments, and providing feedback to improve learning outcomes.

ORGANIZATION

COMPFEST UI

Depok

Person in Charge of Sponsorship

January 2025 – December 2025

- Acquired and built partnerships with 5+ major domestic and international sponsors, including Google Cloud Platform, NTT Data Indonesia, Ottersec.io, FEHA International Consulting, and iSmart by Kinobi.
- Successfully secured over IDR 250 Million in sponsorship funding by managing the end-to-end pitching and negotiation process.

MATA UI - UI Student Association in Purwakarta

Purwakarta

Vice President

2023 – 2025

- As Vice President of MATA UI, I led the off-campus association, fostering community among 77 students and alumni. I organized visits to 12 schools in Purwakarta to promote and inspire local students to study at Universitas Indonesia.

Safehome Anara Indonesia

Depok

Web Developer & Volunteer - <https://safehomeanara.id/>

May 2025 - November 2025

- Developing safehomeanara.id, a web-based platform that provides integrated protection and support for gender-based violence (GBV) victims, funded and supported by the European Union (EU), DPIS UI, and Amarta. I also served as a volunteer facilitator, delivering community outreach and education on GBV prevention.

- Conducted usability testing with volunteer facilitators and end-users to identify navigation friction points, leading to UI/UX improvements that enhanced platform accessibility for critical support services.

PROJECT

Emoji Inpainting & Restoration

Computer Vision Engineer

Computer Vision Project

- Developed a high-fidelity image inpainting system using Conditional GANs (Pix2Pix) to reconstruct masked/damaged emoji images, utilizing PyTorch for model implementation and training loops.
- Architected a U-Net Generator with skip connections to preserve high-frequency spatial details and a PatchGAN Discriminator to enforce texture realism, effectively solving the issue of blurry reconstructions in standard CNNs.
- Engineered a robust data pipeline with a Stratified Group Splitting strategy to prevent data leakage between rotated variations of image samples, ensuring rigorous evaluation on unseen test datasets (OTI).

Cross-Platform Social Media Stance Analysis

NLP Engineer

Social Media Analytics Project

- Developed a Multi-layered Hybrid Analytical Framework to analyze public discourse regarding the 2025 DPR Demonstrations across X (Twitter) and YouTube, processing over 35,000 clean data points.
- Fine-tuned the IndoBERTweet transformer model for contextual stance analysis, achieving a superior accuracy of 85.90% compared to traditional models like SVM and XGBoost, enabling precise target-specific sentiment detection against actors (Government, Police, Protesters).
- Implemented Lexical Mutation Clustering using multilingual-e5-small embeddings and Louvain Community Detection to identify evolving narratives and slang (e.g., "Mulyono", "Gedung Kura-kura") often missed by traditional keyword tracking.

Vehicle Rental System

Fullstack Developer

Enterprise Application Programming Project

- Developed a scalable rental platform using Spring Boot and SQL for robust data management, implementing Dependency Injection and writing comprehensive Unit Tests to validate business logic.
- Conducted rigorous API testing using Postman to verify endpoint functionality and executed performance load testing using Apache JMeter to ensure system stability under high traffic.
- Engineered an automated CI/CD pipeline using Git for version control, containerizing the application with Docker, and managing seamless deployments to an AWS server.
- Built a responsive and interactive frontend using Vue.js to consume the REST API, allowing users to browse available vehicles, create new bookings, and update reservation statuses.

AWARD

Finalist of Web3 OJK & EKRAF Hackathon

Project Lead - <https://jejakriya.vercel.app/>

November 2025

- Developed JejaKriya Protocol : Trust & Liquidity Protocol for the Creative Economy. Spearheaded the end-to-end project lifecycle, from strategic conceptualization to the delivery of a functional prototype on the Sepolia testnet, designed to solve systemic issues in Indonesia's creative economy.
- Defined the product scope and architected the solution around three core pillars: a Trust Protocol for NFT certification, a Liquidity Engine for DeFi collateralization, and a National Data Asset for government analytics.
- Crafted and delivered the final pitch deck, effectively communicating the project's technical innovation, social impact, and regulatory alignment to a panel of industry judges.

2nd Winner of Hackathon Hacksphere Powered by KAI and President University

Fullstack Developer - <https://kai-pandu.vercel.app/>

October 2025

- Developed "KAI Pandu," an AI-powered accessibility web app integrated into KAI Access to empower visually impaired passengers, addressing a critical need for over 8 million visually impaired individuals in Indonesia.
- Engineered the full-stack application using Next.js, React, and TypeScript, connecting to a Supabase (PostgreSQL) backend to manage user data and bookings.
- Integrated an Agentic AI (ElevenLabs) for natural voice-command ticketing and a Computer Vision (YOLOv11) model for real-time station navigation and sign recognition.

1st Winner of Business Case Competition Brawijaya Dialogue Nexgen

Business Analyst

September 2025

- Developed the "MAP (Mobilisasi, Akuisisi, Perluasan) Strategy," a winning business plan for "Competition Buddy," a proposed EdTech umbrella brand to unify specialized student competition bootcamps.
- Conducted comprehensive market analysis (VRIO, TOWS, Competitor) to identify a high-potential niche market of non-top-tier university students lacking access to elite mentorship.
- Proposed a unified web platform with integrated services, supported by financial projections forecasting a 224% ROI and a 2-year payback period on a limited budget.

Finalist Software Development ITFest IPB University

Mobile Developer

August 2025

- Developed "MoodTune," an AI-powered emotional wellness app designed to address the youth mental health crisis by integrating mood journaling with personalized music recommendations.
- Built the cross-platform mobile application using Flutter, connecting to a NestJS backend to process user data and manage API calls.
- Integrated Gemini AI to analyze journal entries for emotional sentiment and the Spotify API to automatically generate personalized playlists based on the user's detected mood.

SKILLS & COMPETENCIES

Hard Skills: Flutter, Dart, Python, Java, Spring Boot, PyTorch, Computer Vision (GANs, Pix2Pix, U-Net), NLP (Transformers, IndoBERTweet), REST API, Vue.js, SQL, Pandas, Git, Data Analysis, Automated Testing (Selenium), API Testing (Postman), Unit Testing (JUnit), Performance Testing (JMeter), CI/CD Pipelines, Docker, AWS Deployment, WebSockets, Firebase, XCode Deployment, Google Play Store Deployment.

Soft Skills: Problem-Solving, Collaboration, Leadership, Technical Communication, Project Management, Adaptability, Strategic Thinking.

Languages: English (Fluent), Bahasa Indonesia (Native).

Certifications: LBI English Proficiency Test (EPT) 560, Uji Kemahiran Bahasa Indonesia (UKBI) 711 (Highly Proficient), Google Cloud (Analyze Images with Cloud Vision API, Analyze Sentiment with Natural Language API, Analyze Speech and Language with Google APIs, Perform Predictive Data Analysis in BigQuery), Datacamp (Python), Kaggle (Machine Learning, Computer Vision), Hackerrank (SQL).