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Education

Bandung Institute of Technology | Bachelor of Information Systems and Technology | GPA 3.61 2022 - 2026

Relevant Coursework: Algorithms and Data Structures, Object-Oriented Programming, Database Systems, Computer Networks, Embedded Systems, Software Engineering, Information Security, Data Analytics, Artificial Intelligence.

Experience

PT Siemens Indonesia – Software Developer Intern

January 2026 – April 2026

Manufacturing Engineer Team

- Modified and maintained a Laravel-based factory visitor and quality access logging system used daily by 200+ personnel
- Troubleshoot production devices (marking systems, tablets, shared Excel logs) to ensure stable operation within factory network and VPN environment

PT Toyota Astra Motor – Software Engineer Intern *July 2025 – September 2025*

Information System and Technology Division – IT Asset Management

- Designed and deployed an internal asset management system supporting lifecycle tracking of 7,000+ enterprise IT assets
- Built modules for asset movement, audit workflows, and inventory monitoring, replacing manual tracking processes
- Authored system design and deployment documentation and coordinated implementation across multiple internal teams

PT Toyota Motor Manufacturing Indonesia – Regulator Intern January 2025 – February 2025

Vehicle & Part Logistic Division – Government Regulation Reform Department

- Developed a Python-based pipeline to extract and reconcile 8,000+ customs and invoice records from PDF documents
- Automated OCR-based data extraction and validation, reducing manual reconciliation effort by over 70%
- Implemented batch processing workflows to improve consistency and audit readiness of regulatory reporting

Trich AI Barberspace – Front-End Developer *November 2024 – November 2025*

- Collaborating seamlessly to transform AI-driven barbershop concepts into an intuitive, high performance digital experience
- Implementing responsive, sleek UI/UX designs, optimizing user interactions, to align user requirements

URPA ITB – Head of Communication and Media Division May 2024 – July 2025

- Disseminates information, documents activities, manages and publishes events through social media, and builds a positive image to external parties

Projects

Netflow | IoT Prepaid Utility Metering System | [Project Document](#)

June 2026

- Built a NestJS + MySQL backend streaming live MQTT telemetry from 2,444+ smart meters into prepaid token billing
- Engineered a 12-detector anomaly engine (tamper, reverse-flow, sensor-fault) hardened by 80+ Jest tests
- Secured multi-tenant access with Google OAuth 2.0, JWT, and RBAC across buildings

Genealogy Platform | Full-stack System Design | [Project Document](#) March 2026

- Built a full-stack application (NestJS, Next.js, PostgreSQL) using a shared-type monorepo architecture
- Designed a custom graph layout engine for complex family structures using BFS-based positioning logic
- Implemented interactive visualization with React Flow, supporting multi-parent and non-linear relationships

Fraud Detection System | Custom ML Pipeline | [Project Document](#) *December 2025*

- Engineered an end-to-end fraud detection pipeline on 100k+ transactions with severe class imbalance (~14%)
- Implemented Decision Tree, Logistic Regression, and KNN from scratch, including gradient descent and L2 regularization
- Improved fraud recall from 0.02 to 0.52 using class weighting and SMOTE, reducing false negatives by 25×
- Benchmarked performance against Scikit-learn models, identifying ~330× efficiency gap in non-vectorized implementations

Certifications

Microsoft Certified: Azure AI Fundamentals (AI-900) | Microsoft | [Document](#)

March 2026

UI EPT (English Proficiency Test) | LBI UI | [Document](#) March 2026

BNSP Certification: IT Service Management (ITIL) | LSP Inixindo | [Document](#) *December 2025*

Achievement

BSI Scholarship Talenta Awardee 2025 | Bank Svariah Indonesia
November 2025

Best Paper Award in Smart City GEMASTIK 18 | Kemendiktisaintek RI *October 2025*

3rd Runner UP in NSCI Business Case Competiton | NSCI x YLI McKinsey November 2024

Top 15 Finalist in Risk Management Analytics Case Competition | IMC IPB *October 2024*

Skills

Languages & Core: Python, C, Java, TypeScript, JavaScript, PHP, SQL

Frameworks & Tools: NestJS, React, Next.js, Laravel, PostgreSQL, MySQL, Git, Figma, Cisco, Ms. 365