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Education

Institute of Technology Bandung

Bandung, Indonesia

Undergraduate, Informatics Engineering

July 2023 – Now

- GPA : 3.49

SMAN 71 Jakarta

East Jakarta, Indonesia

Science

July 2020 – April 2023

- Achieved Top 10% grade among all students

Work Experiences

Telkomsel

JAKARTA, INDONESIA

Intern Software Developer

Jan 2026 - Feb 2026

- Researched and assessed various AI-driven SDLC frameworks through comparative analysis of methodology, tooling, and workflow criteria, selecting Kiro as the recommended approach for AI-driven production-grade software development.
- Built and deployed a full-stack LMS as a case study using Vite, Express.js, GitHub Actions (CI/CD), and AWS S3, covering the entire development lifecycle from planning to production within a month internship period.

Computational Thinking ITB

BANDUNG, INDONESIA

Practicum Assistant

Sept 2025 – Dec 2025

- Supervised alongside a partner for class of 60+ students across four Computational Thinking practicum sessions, assisting with student inquiries and ensuring practicum sessions run accordingly.
- Evaluated students' attendance for all practicum sessions and their practicum submissions with structured review comments to improve student understanding, then recorded assessment results to the teaching team as part of the students' overall course grade components.

Projects

Nimonspedia – *E-commerce Web Application with Real Time Features*

Oct 2025 – Nov 2025

- Developed a fullstack multi-vendor e-commerce application using PHP (MVC), Express, React (SPA), and PostgreSQL, with buyer and seller related features including product management, shopping cart, checkout, auction, and order management, alongside a dedicated admin dashboard. Deployed with Nginx as reverse proxy and Docker-based containerization for seamless interactions between all components in the system.
- Built real-time auction and chat system between buyers and sellers using Socket.io and WebSocket, supporting live bidding, countdown timers, automatic order creation upon auction completion, push notifications, and admin-controlled feature flags via JWT-authenticated dashboard.
- Implemented security measures including CSRF protection, SQL injection prevention via prepared statements, and XSS protection across the application for safe transactions across all users.

Link to the project: <https://github.com/AgungLucker/Nimonspedia>

WebBrewery – *Element Recipe Finder Web for Little Alchemy 2 Game*

April 2025 – May 2025

- Built a web-based recipe finder for Little Alchemy 2 Game using Next.js (TypeScript) frontend and Go backend, helping users to search and visualize crafting paths across 720 elements with interactive tree visualization.
- Implemented BFS, DFS, and their bidirectional variants as graph traversal algorithms on a dynamically built recipe tree, with Go API serving concurrent multi-path requests via goroutine-based multithreading.
- Containerized the application with Docker and deployed to Google Cloud Run, with automatic fallback to local backend if the cloud instance is unavailable.

Link to the project: <https://github.com/AgungLucker/WebBrewery>

Shuzzam - *Song Finder Web via Audio Humming and Album Cover*

Nov 2024 – Dec 2024

- Built a song recognizer website with Next.js (TypeScript) and Python backend scripts, capable of finding song matches from a dataset of 8,000 album cover images and 300 audio files via image query or audio humming.
- Developed the core frontend features including album display, pagination, and query flow, as well as the backend for album dataset storage and microphone recording mechanism.
- Collaboratively implemented and integrated image retrieval using PCA via SVD achieving query completion in under 5 seconds, and audio retrieval using MIR with sliding window feature extraction optimized via multi-threading.

Link to the project: <https://github.com/AgungLucker/Shuzzam>

Skills and Interest

Hard Skills

Programming Language: Python, C++, C, Java, JavaScript, TypeScript, Golang, PHP, SQL

Framework & Libraries: React, Express.js, Node.js, Vite

Database: MySQL, SQLite, PostgreSQL, MongoDB

Tools & CI/CD: Git, GitHub Actions, Docker, Nginx, AWS S3, Postman

Language: Native proficiency in Bahasa Indonesia and professional working proficiency in English

Interests: Software Engineering, System Design, Cloud Infrastructure