

Muflih Muhammad Imaduddin

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Education

Bachelor of Computer Science

Aug 2022 – Jun 2026

Diponegoro University

- GPA: 3.74/4.00, Cum Laude ([Academic Transcript](#) 🔗)
- **Thesis:** *Comparative Analysis of Fine-Tuned Sentence-BERT and GPT Prompting Strategies in Automated Short Answer Grading Classification* ([Colab](#) 🔗); paper awaiting publication
- **Findings:** Across six grading methods on 2,442 student answers, fine-tuned Sentence-BERT scored the best F1 on open-ended questions (0.92) at zero API cost, while GPT-5.4 few-shot led on close-ended questions (0.98)
- **Relevant Coursework:** Software Engineering (A), Software Testing (A), Information Assurance and Security (A), Databases (A), Data Structures (A), Computer Networks (A)

Projects

Trade App

[Code](#) 🔗

- Built a Flutter app with live prices from the CoinGecko API, search across the top 100 coins, and a watchlist saved on the device
- Implemented design tokens from Figma (40 colors, spacing and radius) and a five-tab navigation shell
- Ran 20 pre-registered backtests on BTC, ETH and SOL, based on 22 papers
- Wrote 55 automated tests, including lookahead checks for every setup and timeframe

QuizzAI

[Live](#) 🔗

- Built 10+ pages and 10+ API endpoints with React and Express
- Developed a responsive, interactive UI, with TanStack Query managing client-side state
- Added AI quiz generation with OpenAI models through LangChain, on a PostgreSQL schema modeled with Prisma
- Added a short-answer question type alongside the default multiple choice, with AI grading the answers

Stellar Notes

[Code](#) 🔗

- Built a collaborative note-taking dApp with a Next.js frontend, a Rust Soroban smart contract on the Stellar Testnet and Freighter wallet signing
- Implemented role-based access control (owner, editor, viewer) for creating, managing and sharing on-chain notes
- Designed an immutable on-chain audit log that records every contract action
- Covered the contract's 6 functions with 18 unit tests for roles, permissions and the audit log

SIMAK Undip

[Code](#) 🔗

- Built the student IRS page and IRS status with Laravel and SQLite
- Worked on the dean's dashboard, room approval, and room and schedule management

Experience

Software Engineer Intern

Dec 2024 – Feb 2025

PT Putra Wira Tamtama

- Built major features of [QuizzAI](#) 🔗, a full-stack AI quiz platform, in a team of three, contributing 2,500+ lines of code
- Played a key role in implementing the single-player quiz mechanism and initiated the multiplayer mode
- Demoed the platform to new students at a university exhibition and gathered their feedback on its features

Head of Website & Data Publication Division

Jan – Dec 2024

BEM Universitas Diponegoro

- Led a team of five running the [DataLake](#) website and Instagram, publishing weekly university-wide statistics that drew 1,000+ student engagements
- Designed dashboards and data visuals in Figma and Canva, aligned with campus events and the wider communication strategy across divisions

Laboratory Assistant, Algorithms & Programming

Feb – Jun 2024

Diponegoro University

- Taught weekly lab sessions for 14 weeks, mentoring 20+ students in C: pointers, memory allocation and data structures
- Co-graded 12 weekly assignments with a fellow assistant, guided students through Linux server submissions and debugged runtime and logic errors

Recognition

Programming Division Finalist [Certificate](#)

Award Sep 2024

GEMASTIK XVII

- Selected as a Top 20 finalist out of 200+ teams nationwide in Competitive Programming
- Solved advanced algorithmic challenges in C++ and C, with a strict focus on time and space complexity (Big O) and memory efficiency

Build on Stellar Bootcamp [Certificate](#)

Certificate Jun 2026

Rise In & Stellar

- Trained in building decentralized apps with Soroban smart contracts and Rust, deploying and testing them on the Stellar Testnet, applied in the Stellar Notes dApp

Associate Data Scientist (Ilmuwan Data Muda) Micro Learning [Certificate](#)

Certificate Nov 2025

Inixindo Jogja

- Implemented machine learning classification models in Python, visualized data with Matplotlib and Seaborn, and built dashboards and reports in Power BI

Alibaba Cloud Certified Associate (ACA): Cloud Computing [Certificate](#)

Certificate Nov 2024

Alibaba Cloud

- Studied core Alibaba Cloud concepts: Elastic Compute Service (ECS), Object Storage Service (OSS), relational databases, networking and cloud security

Skills

Languages: JavaScript, TypeScript, Python, Rust, C, C++, PHP, SQL, Dart

Frontend & mobile: React, Next.js, TanStack Query, Tailwind CSS, Flutter

Backend & systems: Express, REST APIs, Prisma, PostgreSQL, MySQL, LangChain, Soroban

Tools & cloud: Git, Docker, Linux, Alibaba Cloud, Figma