NAFIS AZIZI RIZA

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EDUCATION

The University of Queensland — Feb 2024 - Jun 2025
- Bachelor of Computer Science

Universitas Indonesia — Aug 2021 - Jun 2025
- Bachelor of Computer Science
- Relevant Coursework: Data Structure & Algorithm, Software Engineering, Database, OS, Computer Network

National University of Singapore — Jan 2023 - May 2023
- Exchange students under ASEAN University Network Program, awarded UI RISE Scholarship
- Coursework: Design and Analysis of Algorithm, Interaction Design, Computer Network, Software Engineering & OOP, Programming Methodology II

EXPERIENCE

Software Engineer Intern — Jul 2023 - Dec 2023
Telkom Indonesia — *Jakarta, Indonesia*
- Revamped architecture to ensure secure user data storage, aligning with government regulations. Integrated into existing infrastructure, slashing development time by 80+ hours.
- Maintained and enhanced API functionality by resolving 10+ critical bugs, resulting in a 40% decrease in error reports. Achieved code coverage to >85%.
- Migrated the user service using KONG API to be able setting a customized Access Control List

Teaching Assistant — Aug 2022 - Jan 2023
Universitas Indonesia — *Jakarta, Indonesia*
- Taught and mentored a group of 8-9 students resulting in improved student performance and engagement.
- Tracking measurable progress and observing an average grade improvement of 75% among students.

ACHIEVEMENTS & HACKATHONS

- **1st Place Youth Empowerement Hack** at Garuda Hacks, The biggest Hackathon in South East Asia.
- **National 3rd winner, NASA Space Apps Hackathon, 2023**. Creating a solution towards managing the wildfire.
- **Bio Farma X MIT Hacking Medicine**, Delivering healthcare solutions along with professionals.
- **Top 20 (from 200+ teams) of Information technology Business Competition, Gemastik 2022.** The biggest IT competition in Indonesia held by Ministry of Education.

PROJECTS

MatkulGue, University Course Catalog, Timetable Builder, and Course Planner
- Built a MERN stack web application enabling 200+ users across 7 countries to access a personalized course catalog and timetabling tool.
- Successfully scraped 14K+ courses from the university's official websites, and populating database.
- Optimized database queries, reducing average execution time by 40%, resulting in faster response times.
- Utilized AWS services to host the application on an EC2 instance, achieving 99.9% server uptime.

Peopl. Ultimate Online Discussion Forum For Youth Empowerment
- Spearheaded the development a platform that offers secure anonymous discussions, and personalized matchmaking features. Coded with Node, React and MongoDB. Project link
- Implemented a backend server using Node.js and Express, integrating with a MongoDB. Completed with secure authorization using JWT and encrypt with salted password.

SPARC. Smart Predictions and Action for Responding to Wildfire Crises
- Developed a web application addressing the public health crisis of wildfire smoke by predicting its movement and providing actionable insights. Project link
- Woking on the frontend of the project using React Leaflet for the maps API, contributing interactive mapping features, locaiton tag, wildfire spots, and wind simulations.

SEANEMA, One Stop Movie Booking App
- Coded using React & TypeScript, enabling 20+ users to browse & book movie tickets from various showtimes.
- Implemented a backend server using Node.js and Express, integrating with a PostgreSQL database. Completed with secure authorization using JWT and encrypt with salted password. Project link

SKILLS

Programming Languages	Java, Python, Typescript, Javascript
Web/Mobile Development	React, Node, Django, AWS, Docker, Sonarqube, HTML, CSS
Data, AI/ML	SQL, NoSQL, MongoDB, Pandas, Scikit-Learn