

NAFIS AZIZI RIZA

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EXPERIENCES

- Software Engineer Intern**, Telkom Indonesia Jul 2023 - Dec 2023
- Revamped architecture to ensure secure user data storage, and integrated into existing infrastructure.
 - Improved API functionality by resolving 10+ critical bugs, resulting in decrease in error reports, and achieved code coverage of >85%.
- Teaching Assistant**, University of Indonesia Aug 2022 - Jan 2023
- Mentored a group of 8-9 students in Python programming, resulting in average grade improvement of 75%.

PROJECTS

- Fast HTTP Server** | *C++, Computer Network* Jun 2024
- Implemented a simple fast HTTP server with multithreading and kqueue on macOS, achieved significant improvement in throughput and reduce the latency compared to single-threaded implementation
- AlzheimersNet** | *Python, Deep Learning CNN, PyTorch* Feb 2024 - Jun 2024
- Designed a customized neural network CNN architecture, for the multi-class classification of Alzheimer's disease using MRI images, highlighting in interpretable results and design decision tradeoffs.
 - Optimized model performance by transitioning from complex to simpler CNN architectures, resulting in improved accuracy and reduced training times.
- SIASISTEN** | *React, Python Django, SQL, VM* Sep 2023 - Dec 2023
- Revamped a teaching assistant hiring management app used by Fasilkom (Faculty of Computer Science) UI.
 - Conducted end-to-end software development cycle from requirement gathering with client, applying scrum & agile methodology, best practice programming, test driven development (TDD), software quality assurance (SQA), platform monitoring, server VM deployment, and presenting final deliverables to the client.
- SPARC** | *React, Typescript* Oct 2023
- Developed a web app addressing the public health crisis of wildfire smoke by predicting its movement.
 - Working on the frontend using React Leaflet for the maps API, contributing interactive mapping features, location tag, wildfire spots, and wind simulations.
- MatkulGue** | *MongoDB, React, Node, AWS, Python, Javascript* May 2023 - Aug 2023
- Built a MERN stack web app enabling 200+ users to access a personalized course catalog and timetabling tool.
 - Successfully scraped 14K+ courses from the university's official websites, optimized queries reducing average execution time by 40%, and deployed application to AWS EC2 instance.
- Checkout System Simulator** | *Java, OOP* Jan 2023 - May 2023
- Leveraged OOP principles extensively to encapsulate behaviors and properties of various components in Java.
 - Ensured adherence to best practices and avoidance of cyclic dependencies to enhance code maintainability.

ACHIEVEMENTS, HACKATHONS & COMPETITIONS

- **1st Place Youth Empowerment Hack, Garuda Hacks 2023**, The biggest Hackathon in South East Asia.
- **National 3rd winner, NASA Space Apps Hack, 2023**. Creating a solution towards managing the wildfire.
- **Top 20 (from 200+ teams) of Information technology Business Competition, Gemastik 2022**. The biggest IT competition in Indonesia held by Ministry of Education.

SKILLS

Programming Languages	Java, Python, C++, Typescript, Javascript
Web/Mobile Development	React, Node, Django, AWS, Docker, Sonarqube, CI/CD, Unix/Linux
Data, AI/ML	SQL, NoSQL, MongoDB, Sklearn, PyTorch