# Taufik Pragusga

pragusga.com | pragusga25@gmail.com | linkedin.com/in/pragusga | github.com/pragusga25 | leetcode.com/u/pragusga25

## EDUCATION

**University of Indonesia**                                                                                    Jakarta, Indonesia
*Bachelor's Degree in Computer Science*                                                              *Aug. 2020 – Aug. 2024*
*Coursework: Data Structures & Algorithms, Software Engineering, Databases, Operating Systems*

## EXPERIENCE

**Cloud Platform Engineer Intern**                                                               Feb. 2024 – June 2024
*Telkomsel*                                                                                                          *Jakarta, Indonesia*
- Elevated data processing efficiency by automating data extraction from Datadog, saving 70% in manual processing time and enabling data-driven insights through AI-based analysis.
- Reduced infrastructure setup time by 50% by developing a reusable AWS EC2 module with Terraform, ensuring consistent environment provisioning across 3+ production setups.
- Enhanced security compliance by implementing a centralized AWS permissions platform, cutting security incidents by 30% and achieving 100% adherence to security protocols.

**Software Engineer Intern**                                                                      Sep. 2024 – Dec. 2024
*Tokopedia*                                                                                                         *Jakarta, Indonesia*
- Boosted AI chatbot effectiveness by refining prompt engineering with the HYDE method, improving response relevance by 25% and raising user satisfaction scores by 15%.
- Strengthened codebase maintainability by refactoring 20+ core components, reducing debugging time by 40%, which allowed faster issue resolution and onboarding for new developers.
- Achieved 95% test coverage with a comprehensive unit testing suite, decreasing production bugs by 30% and significantly enhancing overall code stability.

**Backend Engineer Intern**                                                                       Aug, 2022 – May 2023
*Nomura Research Institute*                                                                                 *Jakarta, Indonesia*
- Cut recruitment process time by 50% by automating stages from initial testing to interviews, saving 20+ hours weekly and improving candidate experience.
- Streamlined employee operations with a custom management system, reducing administrative task time by 40% and enhancing department workflow transparency.
- Increased HR system scalability by 60% with CQRS and event-driven architecture, supporting a 30% growth in internal employee interactions.

## PROJECTS

**Earthquake Early Warning System** | *Python, Golang, Kafka, MongoDB, Redis*          Aug. 2023 – Dec. 2023
- Engineered a robust microservices system with 5 dedicated services, leveraging Kafka as a message broker to process real-time data from over 3,000 sources.
- Optimized latency to under 1 second through precise Kafka configuration, achieving high throughput without compromising memory or CPU efficiency.
- Maintained stable performance under heavy data load, ensuring rapid response and reliability for critical early warnings.

**Fraud Busters** | *Typescript, Pytohn, Express.js, React.js, TailwindCSS, GCP*          May 2023 – July 2023
- Crafted a high-performance fraud detection web app that analyzes and predicts fraud in up to 10,000 transaction records in under 1 second.
- Implemented frontend, backend, and deployment processes independently, collaborating with three machine learning engineers, resulting in an 80% reduction in fraud detection time compared to manual review.

## TECHNICAL SKILLS

**Languages**: Javascript, Typescript, Python, Golang, Java
**Frameworks**: React, Next.js, Node.js, Fastify, Express.js, Nest.js, Flask, FastAPI, Django, Spring Boot
**Databases**: PostgreSQL, MySQL, SQLite, MongoDB, Redis, DynamoDB
**Developer Tools**: Git, Docker, AWS, GCP, Azure, Apache Kafka, RabbitMQ, SonarQube, Prometheus, VS Code