

# RONI ANTONIUS SINABUTAR

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## EDUCATION

### Universitas Pendidikan Indonesia

Bandung, Indonesia

*Bachelor of Information System of Marine – 3.91*

#### Organization

- Campus Strategist Asia Pacific at **Perplexity**
- Google Developer Student Club Universitas Pendidikan Indonesia

## EXPERIENCE

### Junior Data Scientist

September – December 2024

*Badan Meteorologi, Klimatologi, dan Geofisika*

*Jakarta Utara*

- Streamlined data handling by automating data entry and processing with a ELT pipeline, reducing data refresh time by 30% and improving data reliability.
- Coordinated and supported meetings between project developers and end-users to enhance communication and project alignment.
- Developed strategic KPI dashboards with Flask and React, improving managerial decision-making efficiency by 20%.
- Ensured efficient data visualization clarity for management, maintaining daily updates and achieving a 98% data accuracy rate.
- Developed a Node.js dashboard integrated with a deep learning model to monitor sensor data and report anomalies, achieving 94% detection accuracy and reducing false positives by 40%.

### IT Project Consultant

February – June 2023

*Ministry of Marine Affairs and Fisheries Indonesia*

*Jakarta*

- Optimized data management and validation for over 10,000 alumnus data sets using Python and SQL pipeline, resulting in a 40% increase in data processing efficiency and seamless integration with E-Latar.
- Served as a back-end developer by designing and implementing robust APIs for the e-learning platform, ensuring secure logic and efficient data exchange.
- Organized cross-functional meetings to align stakeholders on application design, accelerating project milestones by 15%.

## PROJECTS

### Fisherman App's Jejak Laut | *React Native, OpenAI, Docker*

- Developed a React-based cross-platform app for fishermen to manage maritime activities through notes across Web, iOS, and Android.
- Implemented Gen-AI to refine fishermen's notes, boosting data entry accuracy by 30% and enhancing decision-making processes regarding fishing operations.
- Integrated Live Location mapping, enhancing fishing gear deployment analysis for a 25% efficiency gain in resource allocation and fishing strategy.
- Secured fishermen's data with local storage and encryption algorithms, slashing data breach risks by 90% to build user trust.

### Network Security Anomaly Detection | *Machine Learning, Statistics*

- Developed a network anomaly detection system, reducing false positives by 30% and improving accuracy to 93%.
- Implemented visualization tools to map network traffic, enabling rapid anomaly identification.
- Built a RESTful API for real-time logging, monitoring and alerts system.
- Identified fluctuating connection rates on high-usage ports as the most vulnerable parameter, and implemented dynamic thresholding with rate-limiting to mitigate risk by 25%.

## CORE COMPETENCIES

**Technical Skills:** Java, JavaScript, Python, C++, Spring Boot, FastAPI, Node.js, Google Cloud Platform, SQL, Postgre, PowerBI, Excel.

### Achievements

- 1<sup>st</sup> at Marine Information System Competency Week (2023)
- 11<sup>th</sup> at Data Science Komdigi
- Juara Google Cloud Platform 11
- Published 3 Paper at Indonesian Conference of Maritim.

### Certifications

- Google Data Analytics and Business Intelligence Professional
- Java Programming II, University of Helsinki's
- IBM Data Engineering Specialization
- DBS Expert Coding Camp: Machine Learning Terapan
- Studi Independen Bersertifikat Cepat Cakap Data Scientist, MSIB 6