

# Nico Renaldo

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Experienced software engineer with a solid background in fullstack development. Proficient in full-stack development using Golang, Python, and Typescript coupled with comprehensive DevOps experience using tools such as Docker, Kubernetes, Jenkins, and AWS. Passionate about AI and ML trends to address societal challenges through data.

## PROFESSIONAL EXPERIENCE

### Sea Ltd.

**Site Reliability Engineer** | Singapore | August 2022 – 2023 (1 year)

- Conducted extensive root cause analysis on a microservices architecture with over 1,265 services, resolving issues at various levels and ensuring optimal system performance.
- Developed and deployed internal platforms that automated operations, enhancing productivity and reducing manual tasks for the entire software engineering team.
- Executed service capacity analysis prior to campaigns, effectively managing service availability for millions of concurrent users and delivering a seamless user experience.

### PT. Hamilton Prima Indonesia

**Backend Engineer** | Indonesia | Oct 2021 – June 2022 (8 months)

- Developed a scalable and efficient REST API backend application using Django, resulting in improved performance and enhanced user experience.
- Implemented automated testing processes, resulting in reduced bug occurrences, and increased overall system stability.

### Jagawana, Incubation Program by Google

**Machine Learning Engineer** | Indonesia | July – Dec 2021 (6 months)

- Led a team of engineers in securing substantial funding from Google and the Ministry of Education, an honor bestowed to only 15 teams from over 3000 competitive participants.
- Constructed and optimized CNN models for detecting chainsaw sounds using real-world datasets, implementing hyperparameter tuning and regularization techniques.
- Designed and implemented scripts to create a chainsaw sound database, leveraging public datasets and YouTube APIs, resulting in a time efficiency gain of 90% by streamlining data acquisition and preprocessing.

## EDUCATION

### Tampere University

M. Sc. In Signal Processing and Machine Learning

Finland

August 2023 – Present

### Gadjah Mada University

B.E. in Electrical Engineering

Coursework: Statistical Signal Processing, Machine Learning

Indonesia

Graduate: June 2022

CGPA: 3.61 / 4.00

## RELEVANT PROJECTS

**Research on Clinical Decision Support System** | December 2021 – August 2022

- Research on lung cancer by identifying nodules in X-Ray images using CNN and YOLO architecture.

## SKILLS

**Development:** Golang, Redis, Kafka, React & Typescript, C++, Flutter, Python, Flask, Django

**DevOps:** Linux System, Jenkins, Kubernetes, Ansible, Google Cloud Platform, Amazon Web Service, Prometheus

**Others:** Tensorflow, PyTorch, Pandas, Numpy, Three.js