

Nico Renaldo

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SUMMARY

A proficient software engineer with a diverse background across various technology domains. Expert in full-stack development using Golang and React, with comprehensive DevOps experience, I specialize in building and maintaining robust, high-demand systems.

Prior to my current role, I served as a Site Reliability Engineer at Sea Ltd. My responsibilities included developing company-wide internal platforms that greatly reduced manual work and ensuring the seamless performance of our services, and troubleshooting a variety of machine and network issues.

WORK EXPERIENCE

Sea Ltd.

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

- Performed root cause analysis on a microservices architecture with over 1,265 services, diagnosing and rectifying issues at the node, network, and application levels.
- Engineered internal platforms that automated operations, widely adopted by the entire software engineering team, streamlining workflow and significantly reducing manual workload.
- Implemented service capacity analysis before campaigns, successfully managing service availability for over 4 million concurrent users during peak traffic, thus ensuring a seamless user experience.

PT. Hamilton Prima Indonesia

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

- Developed a robust REST API backend application using Django.
- Transformed the company's development processes by introducing continuous integration and deployment practices, leading to streamlined workflows and increased productivity.

Jagawana, Incubation Program by Google

Lead Engineer | Indonesia | July – Dec 2021 (6 months)

- Secured substantial funding from Google and the Ministry of Education, an honor bestowed to only 15 teams from over 3000 competitive participants.
- Led the construction and optimization of CNN models for detecting chainsaw sounds using real-world datasets using Mel Spectrogram data, implementing hyperparameter tuning and regularization techniques.
- Designed and implemented scripts to create a chainsaw sound database, leveraging public datasets and YouTube APIs. This automation process led to a time efficiency gain of 90% by streamlining data acquisition and preprocessing.

EDUCATION

Tampere University

M. Sc. In Signal Processing and Machine Learning

Tampere, Finland

August 2023 – Present

Gadjah Mada University

B.E. in Electrical Engineering

Coursework: Statistical Signal Processing, Machine Learning

Yogyakarta, Indonesia

Graduate: June 2022

CGPA: 3.61 / 4.00

VOLUNTEER EXPERIENCE

Bangkit Academy by Google

Capstone Project Advisor | Indonesia | June– July 2023 (1 month)

- Leveraged extensive technical knowledge to 5 different teams, providing strategic guidance on application architecture design, development planning, and optimization of machine learning model deployment and training.
- Successfully led one team to achieve a top 20 project ranking, standing out amongst 500 other teams, by navigating complex challenges and implementing effective solutions.

RELEVANT PROJECTS

Dovi – Language Learning App Utilizing Spaced Repetition Algorithm

2023

Technology: Flutter, Firebase Auth, Firebase Firestore, Cloud Functions

Jagawana – Chainsaw Detection System using CNN and IoT Integration

2021

Technology: Tensorflow, MicroPython, Google Cloud Pub/Sub, Cloud Storage, Cloud Functions, Cloud ML

TECHNICAL SKILLS

Development:

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

DevOps:

Linux System, Jenkins, Kubernetes, Ansible, Google Cloud Platform & Firebase, Prometheus

Others:

Tensorflow, PyTorch, Pandas, Numpy, Three.js

AWARDS & ACHIEVEMENTS

Top 15 Capstone Project

2021

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka

1st Runner Up Winner at Hackathon x Business Case Competition

2021

180 Degree Consulting UGM

1st Runner Up Winner at Hackathon 2.0 Technoscape

2021

Binus Computer Club (BNCC)

2nd Place Winner at AAS International CanSat Competition

2020

American Astronautical Society (AAS)

LANGUAGES

English: Proficient (IELTS Score of 7.5)

Finnish: Elementary

Indonesia: Native

Chinesse Hakka: Native