

Nico Renaldo

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SUMMARY

A software engineer with an extensive background across various technology domains. Having a solid foundation in full-stack development using Golang and React alongside extensive DevOps experience, I am passionate about building and maintaining robust systems that can withstand high demand and deliver exceptional performance.

Prior to my current role, I served as a Site Reliability Engineer at Sea Ltd. My responsibilities included developing internal platforms to streamline and automate manual operations, 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 – July 2023

- Conducted root cause analysis on node, network, and application level, ensuring system uptime and performance
- Developed internal platforms to automate operations, resulting in improved efficiency and reduced manual workload.
- Implemented service capacity analysis before campaigns, ensuring seamless user experience and service availability

PT. Hamilton Prima Indonesia

Backend Engineer | Indonesia | Oct 2021 – June 2022

- Developed a robust REST API backend application using Django, enhancing the functionality
- Generated unit testing and documentation for the Android teams

Jagawana, Incubation Program by Google

Lead Engineer | Indonesia | July – Dec 2021

- Secured 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 using real-world datasets for detecting chainsaw sounds using Mel Spectrogram data with hyperparameter tuning and regularization techniques
- Acquired and preprocessed data from YouTube videos for machine learning models, utilizing web scraping and data cleaning techniques

PT Widya Immersive Technology

Hardware Engineer Intern | Indonesia | Jan - Mar 2021

- Established a secure Raspberry Pi VPN connection for a medical station, ensuring reliable and secure data transfer
- Successfully integrated medical sensors with Raspberry Pi through Bluetooth communication

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

August 2018 – June 2022

CGPA: 3.61 / 4.00

RELEVANT PROJECTS

Dovi – Spaced Repetition Language Learning App

2023

Dovi is a language learning app built with Flutter and Firebase, employing a spaced repetition algorithm to enhance user's language acquisition efficiency.

Jagawana – Chainsaw Detection System

2021

Jagawana is an advanced system utilizing IoT and Machine Learning to detect chainsaw sounds from audio record, aiming to prevent illegal logging. It integrates Google's Pub/Sub, Cloud Storage, and Cloud Functions with a custom-built backend server, facilitating message queue and CNN model integration for detection.

TECHNICAL SKILLS

Development:

Golang, Redis, Kafka, React & Typescript, Flutter, Python & Django

DevOps:

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

Others:

Tensorflow, Pandas

COURSES & CERTIFICATES

TensorFlow Developer by DeepLearning.AI on Coursera

2021

Coursera

Google IT Automation with Python Specialization

2021

Coursera

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