

Jonathan Sitohang

IT OPERATIONS

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Summary

IT Operations specialist with a background in Computer Engineering, experienced in system monitoring, automation, and backend development. Skilled in using tools such as Grafana and Prometheus to maintain infrastructure reliability, and in developing automation scripts to optimize workflows. Strong interest in emerging technologies, particularly AI and process automation, with a consistent focus on improving system efficiency and operational stability. Known for a detail-oriented, proactive approach to solving technical challenges.

Experience

IT Operations | Samsung R&D Institute Indonesia (SRIN)

May 2023 – Sep 2024

- Performed 24/7 system monitoring and ensured stability using Grafana and Prometheus.
- Automated and streamlined reporting processes with Python and Bash scripts, significantly reducing manual work and improving report accuracy.
- Created and executed test cases for prototype applications to verify functionality and reliability.

Back-end Web Developer | Freelance

Aug 2021 – Apr 2023

- Developed REST APIs and managed MySQL databases to support backend functionality.
- Collaborated closely with front-end teams to align on project goals and deliverables.
- Analyzed code and workflows to troubleshoot issues and identify areas for improvement.

Internship | PT Bukit Asam Tbk

Dec 2020 – Jan 2021

- Analyzed the structure of the existing network infrastructure at PT Bukit Asam Tbk.
- Proposed improvements and development plans for the current LAN system.
- Reviewed potential use of Paramiko for automating tasks over the LAN.

Education

Sriwijaya University, B.Sc. in Computer Engineering

2018 - 2022

Indralaya, South Sumatra, Indonesia | GPA 3.48

Certifications

Certified Secure Computer User (CSCU) v3 EC-Council ID: ECC9512780643 - JONATHAN SITOANG	Oct 2024
Ethical Hacking Essentials (EHE) v1 EC-Council ID: ECC0726315849 - JONATHAN SITOANG	Apr 2023
FCF Cybersecurity Fortinet ID: 5603121640JS	Oct 2023

Projects

- Built a Grafana dashboard with Prometheus for real-time server monitoring.
- Created Python/Bash scripts to automate daily report generation, reducing manual work by 50%.
- Participated in the development and implementation of an RFID-based attendance system for a vocational high school, improving attendance tracking accuracy and efficiency.
- Currently developing a flexible AI module designed for easy deployment across multiple platforms, combining online AI services and offline language models to enhance performance and adaptability.

Skills & abilities

Programming & Scripting: Python, Bash, Git

Virtualization & Containers: Linux (Ubuntu), Docker

Monitoring: Grafana, Prometheus

DevOps & Automation: GitHub Actions, Jenkins, Ansible

API & Testing: Postman

Cloud Platforms: AWS, Alibaba

Tools: JIRA, Confluence

Contact Information

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