Hazlan Muhammad Qodri

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SUMMARY

A highly motivated fresh graduate with a current GPA of 3.84, balanced his academic pursuits with part-time work as a DevOps Engineer at Skolla EdTech. His professional journey includes internships at CIMB Niaga and Teman Disabilitas, initiatives funded by Google and the Education Ministry, where he honed his skills in cloud infrastructure and backend development. His technical proficiency spans Python, NodeJS, and Go, and he actively contributes to projects on GitHub. Additionally, he achieved recognition as a Top 15 winner in the Bangkit Capstone Project 2022 and graduated with distinction from Bangkit 2022. He is currently expanding his expertise in Backend Development Languages and various DevOps tools.

TECHNICAL SKILLS

Languages & Tools: Python, TypeScript, Node.js, Golang, Java, JavaScript, HTML, CSS, ReactJS, NextJS, Tailwind, Springboot, ExpressJS, FastAPI, Flask, OpenAPI, Rest API, MySQL, Postgresql, MongoDB, Sequelize, Hibernate, Bash, Shell, Git, Docker, Kubernetes (k8s), Google Cloud Platform Services, AWS, Alibaba Cloud, Vercel, Railway, Deta.Sh, DigitalOcean, CI/CD Engineer, Firebase, Terraform, Unit Testing, Postman, Trello, Jira, Linux, Nginx, Data Studio, Tableau, Elasticsearch, BigQuery

WORK EXPERIENCE

DevOps Engineer   Skolla EdTech   August 2023 – Present

I had a part-time job in Startup Skolla EdTech and my contributions are:

- **Reduced operational costs** for the staging server infrastructure that has pay-as-you-go pricing before by Migrating Staging Server and DB Staging to Alibaba ECS with Ansible and Rsync.
- **Migrated Four Core** MySQL Database Service (Production, Data Anaylitics, etc) **no to little down-time for end user** . Using Master-Slave Replication method for sync-in and also using Alibaba PolarDB for testing beforehand.
- Provisioning and Experimenting **GitLab CI/CD Infrastructure** using GitLab Runner and GitLab Auto DevOps with Terraform and made a pipeline to Google Kubernetes Engine and Amazon EKS.
- Implementing Apache **Airflow Production Deployment** and the **CI/CD Pipeline** for Data Teams to automating the DAGs for any cloud connections.
- Building Observability platform using Grafana, Prometheus, Exporters (Node, Cadvisor, MySQL), Loki and Promtail.
- Tinkering NGINX and Docker for reverse proxy and load balancing of backend server
- Automating Infrastructure Configuration tasks with Ansible, and Vagrant
- Implementing Streamlit Deployment for Data Utility Webserver. Using Github Actions and Alibaba Private Container Registry to Automate the CI/CD test and build.
- Acted as Linux/Sys Administration, taking care of many ECS servers in Alibaba Cloud.
- Create stress/load testing on staging server with K6, InfluxDB, and Grafana for providing an insight and reporting current state of product(s) before elevating it to the production server.

Software QA Engineer   PT Bank CIMB Niaga Tbk   February 2023 – June 2023

I had an Internship in CIMB Niaga x Kampus Merdeka Batch 4 Program and my contributions are:

- Responsible for creating and managing **test script scenarios** across multiple projects
- Responsible for validating and reviewing the testing result while in **System Integration Testing (SIT) and User Acceptance Testing (UAT)** phases
- Carry out tests and perform appropriate analysis, including **defect management** also identifying **system requirements from multiple System Design documentaries**
- Handling one or two test scripts for **robotic/automation testing using .NET in Silk Test Workbench**
- Working on some data analytic projects using Excel and visual basic in order to fulfill the head of the testing management department's request

Backend and Cloud Engineer   TeDi (Teman Disabilitas)   July 2022 – January 2023

TeDi, the first all-in-one accessibility social start-up in Indonesia, has been successfully selected as the top 15 in Capstone Project Bangkit Academy 2022 and received an incubation fund of IDR 140 million from DRTPM and Google to help people with disabilities through machine learning-based android applications. As both founder and software engineer at TeDi (Teman Disabilitas), my responsibilities are:

- Building Competencies in **ExpressJS Nodejs Framework** and **FastAPI Python Framework** on Backend Process to scaffolding and create mobile application and web application with Scrum Process using **Trello** within **6 months** of application development stage

- Modelled **Sequence and Activity Diagram** for System Design, **ERD and EER Model from Database Development (MySQL Workbench 8.0)** and with aid from **DBSchema and DrawIO** in 1st week of work
- Operated DevOps using **Linux and Docker** and eliminating unnecessary workload around producing by **40%**
- Implemented Clean Architecture and Microservices REST API for Website Application and Mobile Application using **NodeJS and TypeScript** and connected it to **MySQL and Firestore** using **Sequelize ORM and MongoDB ODM**
- Planned (in development stage) REST API for deploying Machine Learning model using **FastAPI**
- Managing and maintaining the **Google Cloud Platform Service Infrastructure** of 2 TeDi projects
- Responsible for deploying the **Development server** with **Docker Container**, **Heroku**, and **Vercel**. And the **Production server** with **App Engine**, **Compute Engine**, **Cloud Run**, **Cloud SQL**, and **Nginx**
- Created **Request and Response Model** API Documentation (20 routes of endpoints) with **Swagger** and tested it with **Postman**
- Collaborated with the 2 departments (android and front end developer team) for connecting the API and with the machine learning engineer team for volunteering in taking features data set and model deployments
- Aligned with product manager to audited all information in System Design Documentation (**Flow, Technical Section, Acceptance Criteria, Database Impacted, API Docs, and Services Specification**) and cut down Bangkit Incubation's Administration paperwork (**Mentoring Document, International Research Journal, and Final Report**) by **60%**
- Provided regular reports regarding the finished or ongoing tasks to the mentor and product manager everyday
- **Volunteered** as **Event Organizer**, **Public Relation**, **Zoom Operator**, and **Certificate Designer** in TeDi Summit 2022: Grand Launch Event, as a result we gained 100 more users and led to 4.9 review score in Google Play Store
- **Volunteered** as **Surveyor**, **Event Organizer**, and **Researcher**, in TeDi's FGD (Forum Group Discussion) event with SLB-A Budi Nurani, Sukabumi City, as a result we achieved the top 5 teams in incubation's deliverable 2 scoring

EDUCATION

UPN Veteran Yogyakarta — B.C.S (S.Kom) in Computer Science *Aug 2019 - Jan 2025*

Grade: 3.84 / 4.00

Coursework: Data Structures, Algorithms, Web Development, Database Design, Linux OS, Networking, Design Pattern, Distributed System, Cloud Computing

Thesis: REAL-TIME ANALYSIS DETECTION OF INDONESIAN SIGN LANGUAGE (BISINDO) AND INDONESIAN SIGN LANGUAGE SYSTEM (SIBI) USING MEDIAPIPE AND BIDIRECTIONAL GATED RECURRENT UNIT (BIGRU)

Bangkit Academy By Google, Tokopedia, Gojek & Traveloka — Cloud Computing Path *Feb 2022 – July 2022*

Grade: 96.85 / 100

Deploy applications, monitor operations, and manage enterprise solutions with these specializations: Basic Website and Backend Fundamental, Google IT Automation with Python, Google Cloud Computing Foundations, Architecting with Google Compute Engine, From Data to Insights with Google Cloud Platform, Google Cloud Skills Boost (17 Badges), Soft skill Class: Time Management, Professional Communication.

Achievements:

- Chosen as the **Top 15 Best Product Capstone Team** Semifinalist out of 437 Teams.
- **Graduated with Distinction** and Top 10% students in Bangkit 2022 program
- **Top 1,000** performing students in English courses & tests
- **200 Most Active** Students in the ILT session (Tech, Softskills, and English)
- Active Student during Weekly Consultation

PROJECTS

- Twitter's Sentiment Analysis About The COVID-19 Vaccine Policy with the Naïve Bayes Algorithm.
- Flood Alarm System with Telegram API, NodeMCU, and Water Level Sensors
- Automatic COVID-19 detection system with proximity and temperature sensors using Cloud Computing Technology
- Bookstore Backend API application with Postgresql, sequelize, and ExpressJS
- KampusmerdekaV4 web application for listing all mitra information detail in Batch 4 period

Volunteering & Organizational Experience

Web and Cloud Curricula Team   Google Developer Student Club   September 2022 – Present

Helping students bridge the gap between theory and practice

- Taught and assisted members on their journey to finishing the JuaraGCP Season 8
- Learned how to use docker to containerize application to improve performance and time when developed an app
- Coded REST API using Express and NodeJS

Staff of Web Development   Information Technology Club   April 2021 – September 2021
UPNVY

Brainstorming university projects and experiment

- Learned how to use Javascript DOM and ReactJS in 2 months

Awards & Achievements

Graduated with Distinction Google Bangkit Academy 2022 | *Cloud Computing Path* | *Feb – July 2022*

One of Bangkit **Distinction Graduates** from **300 out of 3100 student nationwide** for **Cloud Computing** Learning Path

Licenses & Certifications

Certified Google Cloud Architect open	Dicoding	December 2022
Certified Google Cloud Engineer open	Dicoding	December 2022
Advanced Insights with BigQuery open	Coursera	September 2022
Crash Course on Python open	Coursera	August 2022
Certified Architecting with GCE open	Coursera	April 2022
Certified Architecting on AWS open	Dicoding	March 2022
Certified Back-End & Google Cloud open	Dicoding	March 2022
Certified JavaScript Basic open	Dicoding	Feb 2022