

Hazlan Muhammad Qodri

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TECHNICAL SKILLS

Languages & Tools: Python, C++, C#, TypeScript, Node.js, PHP, R, JavaScript, HTML, CSS, ReactJS, NextJS, Tailwind, ExpressJS, FastAPI, Flask, OpenAPI, Rest API, MySQL, NoSQL, MongoDB, Sequelize, Git, Docker, Kubernetes (k8s), Google Cloud Platform (GCE, CF, GKE, Cloud Run, App Engine, GCS, Cloud SQL, BigQuery, VPC, Dataflow, Dataprep, Dataproc, Container Registry, Secret Manager), AWS (EC2, Route 53, S3), Vercel, Heroku, CI/CD (Cloud Build, Jenkins, Github Action), Firebase (Firestore, Realtime Database, SSO Authentication), Terraform, Unit Testing, Postman, Trello, Jira, Linux, Nginx

WORK EXPERIENCE

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

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%**
- Independently gathered and analyzed information when developed app, organized, and wrote System Design documentation from various sources like other developer or repository (**Github**) to new documentation or update its service functionality
- 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

Backend and Cloud Engineer Thisable Capstone Project Team April 2022 – July 2022

I had an Internship in Kampus Merdeka Program called Google Bangkit Academy 2022. There was Capstone Project to make Android Application with aid from Machine Learning and Cloud Computing competencies, and my responsibilities are:

- Chosen as the **Top 15 Best Product Capstone Team** Semifinalist out of 437 Teams.
- Building Competencies in **ExpressJS Nodejs Framework** on Backend Process to scaffolding and create mobile application feature Scrum Process using **Trello**
- Responsible for deploying the Production Server and API with **Compute Engine, Cloud Run, and Cloud SQL**
- Collaborated with the android developer team for connecting the API.
- Automated unit testing and deployed to Cloud Run using Github Action CI/CD
- Volunteered in taking sign language, currency detection, and object detection dataset for Machine Learning Model.

IT Support UNDRTD PAPS May 2021 – Present

I had an full-time job in retail company placed on Bandung, and my responsibilities as IT Support are:

- Single-handedly manage and maintain the server, include creating the website UI/UX, network, and hosting on AWS (Using S3 bucket and Route 53)
- Supervise the development of web application
- Manage multiple resources from multiple teams to coordinate according to the goals
- Increase product sales on Shopee with product showcasing and backlinks

EDUCATION

UPN Veteran Yogyakarta — B.C.S (S.Kom) in Computer Science Sept 2019 – Aug 2023

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

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

Deploy applications, monitor operations, and manage enterprise solutions with these specializations and achievements:

- 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, etc
- English Class
- **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

Bangkit Capstone Project : Thisable • first all-in-one accessibility app in Indonesia | *NodeJS, MySQL, ExpressJS, Sequelize*

- Automated Unit testing and deployed to GCP using Github CI/CD
- Implemented REST API using ExpressJS and connect to MySQL and Firestore using Sequelize

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 UPNVY April 2021 – September 2021
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