Muhammad Nur Faiz

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I am Faiz, born in Surabaya, January 26 2002, a fresh graduated student of Applied Bachelor of Informatics Engineering Politeknik Elektronika Negeri Surabaya. As Software Engineer, I have the ability to design and develop full stack web applications, Android mobile applications, and machine learning models.

Work Experiences and Projects

- **Agile Teknik –** Surabaya   Aug 2022 – Des 2023

  Machine Learning Developer Capstone Project
  - Developing a capstone project "Mirai" an application of makeup real time implementation with a team
  - Developing Augmented Reality technology for makeup implementation using CV2 and dlib Python library
  - Integrating between the machine learning and the frontend application
  - Managed the development process with agile principles

- **PT Otak Kanan –** Surabaya   Feb 2023 – Jul 2023

  Mobile Flutter Development Intern
  - Developing "HalloTax" an application for tax consultation with real-time chat
  - Developing the UI with Flutter
  - Developing the real-time chat feature database system with Firebase
  - Integrating between Frontend and Backend
  - Real user application test

- **PT Otak Kanan –** Surabaya   Feb 2023 – Jul 2023

  Backend Laravel Development Intern
  - Developing the Rest API for "HalloTax" application
  - Using Laravel Rest Framework to create the Backend system
  - Designing the database ERD with phpMyAdmin and MySQL
  - Releasing and deploy the API endpoint to be use for the Frontend

- **Bangkit Academy –** Yogyakarta   Oct 2023 – Des 2023

  Android Kotlin Capstone Project
  - Developing "Patani" an application for predicting the vegetables market prices
  - Designing the UI/UX prototype with figma
  - Developing the UI with Jetpack Compose and XML
  - Integrating the Backend Rest API using Retrofit

- **Politeknik Elektronika Negeri Surabaya –** Surabaya   Aug 2023 – Jul 2024

  Machine Learning Development Applied Bachelor Final Project
  - Developing machine learning algorithm for classifying Intracranial Hemorrhage CT-Scan images
  - Using open-source Intracranial Hemorrhage CT-Scan images from kaggle
  - Using Vision Transformer architecture for model training
  - Reaching evaluation metrics score average up to 80% for the training data and 81% for the testing data
  - Deploy into Django Rest Framework as a Rest API for later use into real-time application

- **Politeknik Elektronika Negeri Surabaya –** Surabaya   Aug 2023 – Jul 2024
  Fullstack Web Development Applied Bachelor Final Project
    o Developing web application for real-time machine learning implementation
    o Developing the Backend Rest API using ExpressJs
    o Developing the Frontend web application using ReactJs
    o Integrating the Backend, Machine Learning, and Frontend applications
    o Deploy the application to online hosting with cPanel
  o Real-time user testing

Educational Backgrounds

- **Politeknik Elektronika Negeri Surabaya –** Surabaya   Aug 2020 – Jul 2024
  Bachelor of Applied Informatics Engineering
  o GPA: 3.81/4.00
  o Applied Bachelor Final Project title: Deteksi Pendarahan Otak (Intracranial Hemorrhage) Berdasarkan CT-Scan Image dengan Metode Vision Transformer
  o A paper submitted into International Conference "International Electronic Symposium (IES)" and uploaded into IEEE
  o Active at Informatics Engineering Major Student Council
- **Bangkit Academy –** Indonesia   Aug 2023 – Jan 2024
  Mobile Development
  o Learning and mastering Android Kotlin Development
  o Full graduated with 88.4 Average score with A grade score
  o Completing Capstone Project "Patani" an application for predicting the vegetables market prices
- **VSGA Digitalent Scholarship –** Surabaya   Aug 2023 – Jan 2024
  Junior Mobile Programming
  o Learning and mastering Android Java Development
  o Gaining Badan Nasional Sertifikasi Profesi (BNSP) for Junior Mobile Programming

Organization Experiences

- **Himpunan Mahasiswa Teknik Informatika PENS** – Surabaya   Nov 2021– Oct 2023
  o Young Staff of Foreign Affairs Department
    Bridge for connecting between internal organization to external organizations
  o Expert Staff of Entrepreneur Department
    A place for developing the skill of entrepreneur and the main organization income

Certifications

- **ReactJs Frontend** – PKS Digital School   June 2023
  o Developing frontend application with ReactJs
  o Using Tailwind CSS and Flowbite
  o Integrating Rest API with ExpressJs
- **Android Intermediate** – Dicoding Academy   Nov 2023
  o Advance UI with XML
  o Animation with Motion Layout
  o Background service

- o Media management
- o Geo location with Google Maps API
- o Advance testing with MockWebServer and double test
- o Advance local database
- o Using Firebase
- **Android Jetpack Compose** – Dicoding Academy   Nov 2023
  - o Understanding Jetpack Compose
  - o Compose layout
  - o Compose states
  - o Lazy layout
  - o Navigation
  - o Testing
  - o Interoperatibility
- **Junior Mobile Programming –** BNSP   Aug 2024
  - o UI design
  - o Database design and data persistence
  - o Mobile location
  - o Basic security
  - o Mobile censor
  - o Mobile Cellular Network
- **Flutter Fundamental** – Dicoding Academy   Sep 2024
  - o Flutter widgets
  - o State management with Provider
  - o Flutter HTTP
  - o Scheduling
  - o Local database
  - o Testing
  - o Using Firebase

Skills

Hardskill   : Dart, Flutter Mobile, Android Kotlin, JavaScript, NodeJs, ReactJs Tailwind CSS, ExpressJs, PHP, Laravel, Python, Django, Git, Github, Gitlab

Softskill   : Problem Solving, Team Management, Analytical Thinking, Agile Method, Growth Mindset

Languages   : Indonesian, English, Javanese