

Mukhammad Fahmi Fachrizal

Front-End / Full Stack Developer

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SUMMARY

Front-End Developer with strong full-stack capability and a background in data analysis and meteorology. Experienced in building and delivering production-grade digital banking features at scale. Joined BNI as part of the early engineering team that developed key POCs and integrated mini-apps technology into the native Wondr app framework. Known for combining technical execution with analytical thinking to deliver clear, reliable, and user-focused solutions. Passionate about system design, developer experience, and building maintainable products through shared libraries, standardized tooling, and clean engineering practices.

WORK EXPERIENCE

PT BANK NEGARA INDONESIA (PERSERO), Tbk.

Jakarta, Indonesia

Wondr by BNI — Digital Banking Platform

June 2023 – present

Front End Developer – Retail Digital Delivery Division

As part of the foundational engineering team behind Wondr by BNI, contributed to early technical direction, delivered multiple production POCs, and supported integration of mini-apps technology into the native mobile stack. Build and maintain responsive, secure, and performant front-end features while collaborating across teams.

Key Responsibilities & Contributions

- Joined the early engineering team delivering POC technologies for Wondr and integrating mini-apps into the native framework.
- Developed multiple investment features end-to-end, including Bonds/Sukuk, Mutual Funds, Diaspora, and DPLK modules.
- Collaborated with product owners, backend engineers, and UI/UX designers to ensure translation of requirements into high-quality, user-centered interfaces.
- Maintained and contributed to BNI's in-house UI component library, ensuring consistency across the platform.
- Acted as maintainer for multiple squad and cross-team repositories, enforcing structure, standards, and code quality.
- Built internal development tools such as API mocking utilities, testing helpers, and workflow scripts aligned with Confluence documentation and engineering guidelines.
- Improved reliability and maintainability through structured state management, API integration patterns, and enhanced error-handling flows.

Tech Stack: React.js, Next.js, Typescript, Redux/Zustand, GraphQL, REST API, Node.js, Supabase, Vercel, Jest, CI/CD, Git

UNION SAMPOERNA TRIPUTRA PERSADA

Jakarta, Indonesia

Data Analyst

September 2018 – August 2022

Key Responsibilities & Contributions

- Managed and analyzed crop productivity data to support operational decision-making.
- Built and optimized budgeting models and automated cost-tracking pipelines.
- Improved reporting workflows and reduced manual processes through data engineering solutions.

Tech Stack: Python, Pandas, SQL, Excel, Data Visualization

LEMBAGA PENELITIAN DAN PENGABDIAN MASYARAKAT - ITB

Bandung, Indonesia

Research Analyst – Meteorology Laboratory

February 2017 – August 2018

Key Responsibilities & Contributions

- Managed Linux-based servers running the WRF weather prediction model.
- Built and maintained job scheduling for preprocessing and post-processing model output.
- Conducted ETL operations to transform model data into web-ready formats for public access.

Tech stack: Linux, Bash, Cron, Python, WRF

PROJECTS

Wanderia — AI-Assisted Travel & Navigation App

January 2023

A mobile app that assists users with planning and navigating short trips using AI and smart routing.

Tech stack: React Native, OpenAI, MapsAPI, Express.js, PostgreSQL, MongoDB, Jest, AWS, Firebase

Zigzag Delivery — Public Transport-Based Delivery

December 2022

A mobile delivery app that uses existing public transportation routes & schedules to plan the most efficient delivery route.

Tech stack: Vue, Pinia, Express.js, PostgreSQL, Jest, AWS, Firebase

Fertilizer Recommendation Formula

August 2020

Developing fertilizer recommendation formula based on field observations and crop analysis which then replaces the role of a third-party consultant, with result formula accuracy of 80-90%.

Tech stack: Python, Pandas, Google Colab

Multi Hazard Early Warning System (MHEWS) BNPB

August 2018

A platform provides real-time monitoring and prediction of weather condition to provide alerts and recommendations for potential hazards and disasters in Indonesia. It offers interactive maps, visualizations, and educational resources on disaster preparedness and response.

Tech stack: Server, WRF, Cron, Google Earth, PHP

EDUCATION

Hacktiv8 (Honor Awards, 93.6/100)
Full Stack JavaScript Immersive Program

Jakarta, Indonesia
October 2022 – February 2023

Institut Teknologi Bandung
Bachelor of Science, Meteorology

Bandung, Indonesia
2013 – 2017

SKILLS

Language: JavaScript, Python, Matlab, Bash Scripting, C, C++, Fortran, Kotlin, Swift

Technical Skill: Server Admin, Job Scheduling, Numerical and Statistical Prediction

Front End: React JS, Redux, Vue, Pinia, React Native, HTML & CSS, Apollo Client

Back End: Node JS, Express, Sequelize, PostgreSQL, GraphQL, Apollo Server, MongoDB, Redis, Rest API

CERTIFICATIONS

Hackerrank

SQL (Intermediate) Certificate
Certificate: [C8D2A9105BDF](#)

Issued on September 2021
No expiration date

Hackerrank

Python (Basic) Certificate
Certificate: [4792303992D7](#)

Issued on February 2021
No expiration date