IKHLAS TAUFIQUL HAKIM

Software Engineer | Full-Stack & Cloud Developer

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SUMMARY

Software Engineer with experience in full-stack, desktop, and mobile application development. Proficient in Python, JavaScript, React.js, Node.js, and Flutter. Skilled in cloud computing with Firebase and Google Cloud Platform. Experienced in IoT systems, automation tools, and data-driven web applications for environmental and meteorological research. Known for being communicative, result-driven, and adaptable, with strong problem-solving skills and a continuous learning mindset.

SKILLS

- Programming: Python, JavaScript, Java, C++, Dart
- Frameworks: React, Node.js, Flutter
- Databases: PostgreSQL, MongoDB, Firebase
- Cloud & DevOps: Google Cloud Platform (GCP), Amazon Web Services (AWS Cloud), Docker, CI/CD
- Concepts: Machine Learning, Artificial Intelligence, SOLID Principles, Data Analysis
- Tools: Git, REST API, Postman, VS Code
- Soft Skills: Communicative, Problem-Solving, Result-Driven, Adaptable, Continuous Learner

EXPERIENCE

PT Anugerah Wisesa Selaras (Weathermod.id) | Flight Scientist / Software Engineer

Jun 2024 – Aug 2025

- Developed Python-based desktop apps for weather data visualization and seeding tracking.
- Created internal real-time data server using Firebase Realtime Database.
- Automated daily retrieval of TRMM JAXA weather data.
- Built Flutter-based web app mirroring desktop functionalities.
- Supported weather modification missions, including in-flight seeding decisions and atmospheric data analysis.

Yayasan Patembayatan Sinau Bumi | IoT Engineer

Oct 2023 – Jun 2024

- Developed IoT-based RFID attendance and environmental monitoring systems.
- Designed field data collection instruments for student projects.
- Implemented automated irrigation and poultry house control systems.

IPB Environmental Research Center | Junior Software Developer

Jun 2023 – Nov 2023

- Automated data extraction using Python, Selenium, and PostgreSQL.
- Developed backend APIs with Golang and created interactive dashboards for prediction systems.

CCROM SEAP

R&D Engineer — *Sep 2022 – May 2023*

- Developed real-time monitoring website and Android app for GPS data.
- Integrated Firebase Realtime Database for live environmental monitoring.
- Built automated email alert system for instrument status.

Research Intern — *Dec 2020 – Sep 2022*

- Designed low-cost IoT air quality sensors and validated field data.
- Published a paper at the 2nd International Conference on Tropical Meteorology and Atmospheric Sciences (2021).

EDUCATION

IPB University — B.Sc. in Applied Meteorology (GPA 3.55 / 4.00)

Aug 2018 – Sep 2022

- Thesis: Observation of Weather Elements Using Wireless Sensor Networks
- PKM-KC DIKTI Grant (2021): "COMFY: Cloud-Based Autonomous Thermal Conditioning System"

SMAN 3 Cibinong — Natural Sciences

2015 – 2018

- 2nd Place, Regional Computer Science Olympiad Bogor (2017)
- 2nd Place, Regional German Language Olympiad (2016)

CERTIFICATIONS (SELECTED)

- Back-End JavaScript – Dicoding (2025–2028)
- React Web Development – Dicoding (2025–2028)
- Python Programming – Dicoding (2023–2027)
- Machine Learning Development – Dicoding (2023–2027)
- Google Cloud Essentials & Vertex AI – Google Cloud Skills Boost (2022–2025)
- Cybersecurity Fundamentals – Cisco / ITBOX (2023–2025)