MUHAMMAD AZKA HARTAMI

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SUMMARY

Fresh Computer Science graduate with 2+ years of experience in web application development through freelance projects, academic research, and contract work. Skilled in React, Node.js, and PostgreSQL, with additional knowledge in Golang, .NET, Python, Laravel, and MySQL. Recently developed a bookkeeping web app with invoice automation and WhatsApp integration for a property rental business. Passionate about building scalable, user-focused applications and eager to grow as a Full-Stack Developer.

EXPERIENCE

FinTrack   **May – Jun 2025**
Web Developer

- Identified the lack of a simple yet powerful expense tracking solution for personal finance management.
- Took ownership as a full-stack developer to design and implement the application end-to-end.
- Built the frontend using React + Vite for responsive UI/UX and smooth navigation.
- Developed the backend with Node.js and PostgreSQL, integrating Supabase for authentication and data handling.
- Implemented data categorization by fund source and spending theme to give users clearer financial insights.

Key Achievements

1. Delivered a functional MVP within 1 month, showcasing full-stack development skills.
2. Enabled users to track expenses across multiple categories and sources, improving visibility of personal finance.
3. Deployed and integrated React + Node + Supabase stack into a single cohesive project available on GitHub.

RoemahDjogja – Sleman, Yogyakarta   **Feb – Mar 2025**
Web Developer

- Addressed the need for a streamlined bookkeeping system in a homestay and property rental business.
- Acted as a developer to design and build a custom web application for daily financial records.
- Implemented income and expense tracking with real-time data storage using Supabase.
- Added advanced features such as PDF invoice generation, WhatsApp sharing, and thermal printer support for seamless operations.
- Delivered a clean, responsive interface with React (Vite) + Tailwind CSS, improving usability for non-technical staff.

Key Achievements

1. Automated 100% of invoice generation, reducing manual bookkeeping errors.
2. Enhanced customer communication by integrating WhatsApp invoice delivery.
3. Successfully deployed a thermal printing feature, enabling direct receipt printing and minimizing operational delays.

Balai Penyelidikan dan Pengembangan Teknologi – Yogyakarta City, Yogyakarta   **Oct 2024 – Mar 2025**
Kebencanaan Geologi (BPPTKG)
Developer

- Identified the challenge of monitoring dome deformation at Mount Merapi using geospatial datasets for disaster risk assessment.
- Took the role of a research developer to design a computational tool that automates deformation vector analysis.
- Processed five DEM datasets (2020–2024) and applied Digital Image Correlation (DIC) to detect dome displacement patterns.
- Built the solution in Python, leveraging NumPy, OpenCV, Matplotlib, and Rasterio for image matching, spatial computation, and DEM preprocessing.
- Deployed the tool as an interactive web app with Streamlit, integrated into BPPTKG's custom virtual environment for operational use.

Key Achievements

1. Validated results against BPPTKG's EDM measurements, with high alignment during the 2020–2021 peak deformation period.

2. Delivered a data-driven visualization platform, enabling geologists to analyze deformation vectors across temporal intervals.
3. Produced a research-backed tool that enhanced BPPTKG's monitoring workflow, contributing to volcanic hazard assessment.

BayangTrans – Sleman, Yogyakarta   **Mar – May 2024**
Web Developer

- Identified inefficiencies in the manual bookkeeping and scheduling system of a local vehicle rental business.
- Acted as a full-stack developer to design and implement a tailored web application.
- Built modules for fleet availability, rental schedules, and maintenance logs, ensuring accurate data tracking.
- Implemented real-time vehicle availability monitoring and visualized rental durations per vehicle for operational clarity.
- Developed with React (Vite), Node.js, styled-components, and Supabase for authentication and data management.

Key Achievements

1. Reduced scheduling conflicts by enabling real-time fleet availability tracking.
2. Improved financial oversight by integrating per-vehicle and global income/expense tracking.
3. Delivered a full-stack solution within 2 months, helping streamline business operations.

UPN "Veteran" Yogyakarta Rectorate – Sleman, Yogyakarta   **Feb - Jul 2023**
Web Developer

- Faced the challenge of managing fragmented academic and administrative data across different campus units.
- Took responsibility as an intern web developer to design and implement a centralized data management system.
- Built features to record and monitor student enrollment, faculty data, academic ranks, and institutional records.
- Integrated the app with the university's existing APIs to ensure synchronization of official campus data.
- Enhanced data visualization and reporting to support administrative decision-making at the rectorate level.

Key Achievements

1. Streamlined data access for multiple campus departments, reducing duplication and inconsistencies.
2. Improved administrative efficiency by providing real-time data visualization and reports.
3. Delivered a functional web app that served as a foundation for centralized campus data management.

BPS Provinsi Kepulauan Riau – Tanjungpinang, Kepulauan Riau   **Jun – Aug 2021**
Data Entry

- Addressed the challenge of processing large-scale citizen information for provincial statistical records.
- Took the role of a data entry staff to input and verify sensitive demographic data.
- Utilized coded input systems (religion, ethnicity, gender, etc.) to standardize entries across datasets.
- Maintained high accuracy under tight deadlines, ensuring data integrity and consistency.
- Operated within government confidentiality protocols while working on internal BPS applications.

Key Achievements

1. Processed thousands of citizen records with above-average accuracy rate.
2. Consistently met daily data entry quotas ahead of schedule.
3. Contributed to secure and standardized population data management for the province.

EDUCATION

UPN "Veteran" Yogyakarta – Sleman, Yogyakarta   **Sep 2020 – Mar 2025**
Bachelor of **Computer Science**
GPA **3.43/4.00**

BNSP Certification – Sleman, Yogyakarta   **Des 2022 – Des 2025**
Junior Web Developer

APIsec University   **Jun 2025**
APi Security Certified Practitioner

Udemy Certification   **Sep 2025**
React, Next.js, Redux & More

SKILL

- **Frontend Development** (React, Vite, Next.js, Tailwind, CSS, Styled Components, Redux, JavaScript, TypeScript)
- **Backend Development** (Node.js, Express.js, Golang, .NET, Laravel)
- **Database Management** (PostgreSQL, MySQL)
- **API Development** (REST API)
- **Testing** (Postman)
- **Data Science & Research Tools** (Python, NumPy, OpenCV, Matplotlib, Rasterio, Streamlit)
- **Containerization & Deployment** (Docker, Git, GitHub)
- **Problem Solving** (Debugging, Logical Thinking, Analytical Skills)
- **Collaboration** (Teamwork, Cross-functional Communication, Knowledge Sharing)
- **Project Management** (Time Management, Task Prioritization, Meeting Deadlines)
- **Adaptability** (Learning New Technologies, Handling Feedback, Flexibility in Projects)
- **Attention to Detail** (Code Quality, Documentation, Testing Accuracy)
- **Communication** (Technical Writing, Presentation Skills, Client Communication)