BASTIAN SITANGGANG

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North Sumatera, Indonesia

A final year Computer Technology student at Del Institute of Technology with a strong interest in the Internet of Things (IoT), DevOps, Web Development, and UI/UX Design. Possessing high intellectual curiosity and exploratory enthusiasm for technological innovation, I prioritize meticulousness in software testing and am firmly committed to continuous self-development. I am strongly determined to contribute to building a reliable and sustainable technology ecosystem, and I am a responsible, adaptable individual with a high spirit of collaboration in a team environmen

Education

Institut Teknologi Del   Jul 2023 - Aug 2026 (Expected)

Diploma in Computer Technology

- Relevant Courses: Web Development and Internet Application Development, Software Engineering (including Design, Analysis, and Quality Assurance), Network Security and Cryptography, Programming (C, Java, Kotlin, Python), Algorithms and Data Structures, Database, Operating Systems, Embedded Systems Fundamentals, IoT Technology, Cloud Computing, Computer Networks, Discrete Mathematics, Linear Algebra, Probability and Statistics, Computer Architecture, and Digital Innovation

Projects

Computer Technology Career Information Website   Jan 2024 - Jun 2024

Web Developer

Offers insights into various career paths that Computer Technology graduates can pursue

- Engineered and deployed a dynamic web platform dedicated to providing comprehensive career insights and job opportunities for Computer Technology graduates, directly addressing user information needs.
- Developed the full system functionality, including alumni tracking, job listing, and career path filtering, using PHP and a robust framework to ensure system scalability and efficient data handling.
- Managed and structured the MySQL database to support complex relational data for alumni profiles and job postings, optimizing query performance for fast information retrieval.

IOT Weater Data Collector   Jan 2025 - Jun 2025

Frontend Developer

This project involves the development of an end-to-end system to automatically collect weather data using IoT hardware, with the aim of providing real-time environmental monitoring and cloud-based data analytics to support accurate decision-making.

- Designed and developed a responsive web dashboard using a web framework to present real-time and historical weather data from the cloud backend.
- Integrated data visualization libraries to display temperature, humidity, and pressure data in interactive and easily analyzed charts, gauges, and tables.
- Implemented an intuitive user interface (UI) for seamless navigation between real-time data views and historical data archives, thereby enhancing the user experience.

IoT Weather Monitoring Sistem   Jul 2025 - Dec 2025

IoT Frontend Developer and Data Visualization Specialist

Developed a real-time user interface for the mobile application or web dashboard, specifically designed to monitor weather data transmitted from the IoT hardware.

- Developed the web monitoring dashboard using Laravel, providing a scalable and efficient system for managing sensor data streams and displaying real-time weather analytics.
- Developed Android mobile applications using Kotlin to enable remote weather alerts and monitoring, and refactored the data ingestion backend into a microservices architecture to handle high-volume sensor data.
- Collaborated effectively in an Agile Scrum team to ensure robust data flow and high-quality system delivery.

Organisational Experience

HIMATEK (Computer Technology Student Association)   Sep 2024 - Sep 2025

Head of Public Relations Division

- This division is tasked with serving as the liaison and spokesperson for the association to build and maintain HIMATEK's positive image among students, lecturers, and external stakeholders.
- Led and managed a team to plan and execute activity publications, information campaigns, and promotional events related to Computer Technology.

- Responsible for developing both external and internal communication strategies, including the management of digital assets (such as social media and the association's website).

Skills

- **Programming**: PHP, HTML, CSS, JavaScript, Laravel, Python, Java, C, SQL.
- **Soft Skills**: Teamwork,Communication, Problem Solving, Adaptability,Time Management
- **Tools**: GitHub ,Visual Studio Code,Postman, WordPress,Arduino IDE,phpMyAdmin,Docker Dekstop,Node-RED,XAMPP
- **Language**: Bahasa Indonesia (Native), English (Intermediate)