BINTANG SIAHAAN

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SUMMARY

I'm a Computer Engineering student at the University of Indonesia with a strong passion for technology and innovation. I specialize in programming, system design, and problem-solving, with experience in web development, mobile applications, and IoT projects. I believe that technology is not just a tool but a bridge to create meaningful change and inspire progress.

WORK EXPERIENCE

Assistant Lecturer Linear Algebra at University of Indonesia   **Feb 2024- Jun 2024**
- Created detailed solutions for student assignments and quizzes to enhance understanding of the subject matter.
- Managed a class of over 50 students by accurately and fairly evaluating assignments and quizzes, utilizing Excel-based tools for efficiency.
- Effectively prioritized and managed time to balance teaching responsibilities and academic tasks.

ORGANIZATIONAL EXPERIENCE

Staff of Student Welfare - IME (Ikatan Mahasiswa Elektro) FTUI   **Feb 2023 - Dec 2023**
- Supported mental health and well-being programs for students in the Department of Electrical Engineering.
- Organized the KENTAL (Kesma Mental Health) seminar for World Mental Health Day, raising awareness.
- Promoted open discussions and provided mental health resources to foster a supportive environment.

EDUCATION

UNIVERSITAS INDONESIA   **2022 - Present**
Undergraduate of Computer Engineering
- Studied both software and hardware aspects of computers, gaining a comprehensive understanding of system architecture.
- Developed mobile applications using Object-Oriented Programming (OOP), web applications, and IoT projects.
- Learned programming languages including C, C++, Python, Assembly, VHDL, Java, JavaScript, and HTML.

SMA NEGERI 2 BALIGE   **2019 - 2022**
Science Major
- Participated in extracurricular activities including the Mathematics Olympiad and the School Health Unit.

SMP NEGERI 4 BALIGE   **2016 - 2019**

PROJECTS

- **QuakeRangers! :** An educational website for children under 12 to raise awareness about earthquakes, featuring interactive courses and quizzes on earthquake science and preparedness.
- **JBus** : A mobile app developed in Java to manage bus-related activities, including classes for buses, stations, accounts, and payments, with data stored in JSON files.
- **Retroactive** : An online shopping platform for unique retro items, primarily music-related products like CDs, vinyl, and cassettes.
- **Hotel Booking System** : A VHDL-based system that enables hotel room reservations, calculating the payment based on room type, number of guests, and duration of stay.
- **Automated Plant Watering** : An assembly program that automatically waters plants using a timer to prevent water wastage.
- **Air Quality and Machine Safety Monitoring** : An IoT system that monitors air quality in factories with an MQ-135 sensor and controls machinery safety based on gas levels and proximity to employees.

CERTIFICATIONS

- CCNA: Switching, Routing, and Wireless Essentials - Cisco
- CCNA: Enterprise Networking, Security, and Automation - Cisco
- Selenium WebDriver 4, Cucumber BDD, Java & More! - Udemy
- Postman: The Complete Guide - REST API Testing - Udemy
- Katalon Studio Beginners - Hands-on Training - Udemy
- Java Intermediate - Sololearn
- SQL Intermediate - Sololearn

SKILLS

Hard Skills

- **Programming Languages** : Java, C, C++, Assembly, VHDL, JavaScript, HTML, Python
- **Web Development** : React, Node.js, Express.js, HTML, CSS, Tailwind CSS, Next.js
- **Mobile Application Development** : Java, Android SDK
- **IoT & Embedded Systems** : ESP32, Arduino, MQTT
- **Database Management** : MySQL, MongoDB, PostgreSQL
- **Tools & Technologies** : Git, Docker, Postman, Blynk, JSON

Soft Skills

- Problem-Solving
- Communication
- Teamwork
- Time Management
- Adaptability