JOSUA SIREGAR

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Central Tapanuli, North Sumatra, Indonesia

Results-oriented Back End Developer with a strong background in software development. Proficient in JavaScript (Node.js), PHP, Python, Go, Java (Spring) as well as ReactJS, Express JS, and Laravel frameworks. Experienced in optimizing database queries and improving application performance through a deep understanding of RESTful APIs and microservices. Committed to delivering the best solutions and achieving peak performance for organizational and project success.

EXPERIENCE

PT. INDONESIA AIRASIA   **Tangerang, Banten**
Software Engineer (Internship)   **Feb 2024 – Jul 2024**
- Developed AIRMASTER Super App using Dart and Flutter, as well as Firebase, improving work efficiency by 30%.
- Built cross-platform apps for Android and iOS with 100% compatibility.
- Performed clean code, test using ZAP, and reduce bugs by 30% before launch.
- Implemented security best practices, improving user data security by 51%.
- Integrated REST API, speeding up data exchange by 25-30% and improving app responsiveness.

EGOV CENTER   **Laguboti, North Sumatra**
Mobile Developer (Internship)   **Aug 2023 – Dec 2023**
- Developed Drinking Water Retribution Recording application, improving work efficiency by 30%.
- Built a Tourism App for over 1,000 users, increasing local tourism exploration.
- Using Dart, Flutter, Git, and REST API, improved functional efficiency by 51%.
- Implemented note-taking, QR Code payment, and complaint handling, increasing user satisfaction by 30% and speeding up transactions by 50%.
- Implemented a thermal printer, reducing invoicing time by 35% and improving accuracy by minimizing manual entry errors.
- Integrated Google Maps API, increasing user satisfaction by 30-40% with accurate navigation.

ORGANIZATIONAL EXPERIENCE

BEM IT DEL   **Laguboti, North Sumatra**
Member of the Order and Discipline Department   **Jan 2023 – Jun 2024**
- Organized and supervised student activities, reducing the incidence of misconduct by 30%.
- Ensured safety and order during campus activities for over 1,500 students.

HIMATIF   **Laguboti, North Sumatra**
Member of Education Division   **Jul 2022 – Jan 2023**
- Conducting tutorials to juniors every 3 weeks 2 times, increasing understanding of the course by 25-30%.
- Conduct quizzes 2 times per semester, evaluating comprehension with an increase of 30-40%.

EDUCATION

INSTITUT TEKNOLOGI DEL   **Laguboti, Nort Sumatra**
Associate Degree, Information Technology   **2021-2024**
- GPA: 3.55/4.00
- Relevant Courses: Web Developer, Database Systems, Algorithms & Machine Learning
- Developer for Kedaireka Matching Fund Program in 2023.
- New Student Matriculation Assistant in 2023.
- Teaching Assistant / Practicum Assistant for Computer Architecture and Organization course TA. 2022/2023.
- Gemastik XV Competition Participation in 2022.
- Student Leadership Program participation TA. 2022/2023.

PROJECT

PRODUCT RECOMMENDATION WITH ALGORITHMS   **Sep 2023 – Jul 2024**
- Developed a front-end using HTML, CSS, JavaScript, and PHP programming language with the help of the Laravel framework, incorporating AJAX for asynchronous data updates, improving development efficiency by 60%.
- Using MySQL for database management.
- Implemented the back-end with machine learning algorithms (Python), improving product recommendation accuracy by 80%.
- Integrated REST API to connect the front-end and back-end, speeding up data exchange by 25%.
- Tested 300 users, identifying and fixing bugs before launch.
- Optimized the recommendation model using MAE and RMSE, achieving an error rate below 1 and increasing user satisfaction by 40%.
- Using VPS for application deployment ensures optimal scalability and performance in handling high-user traffic.

DELHUB MOBILE-BASED APPLICATION   **Jan 2023 – Jun 2023**
- Designing apps with Dart and Flutter, improving efficiency by 50%.
- Integrate REST API, and speed up data synchronization by 30%.
- Implemented real-time notification with Firebase messaging, improving responsiveness by 40%.
- Developed key features: schedule, guidance, grades, improving user satisfaction by 35%.

MARKETKU   **Oct 2022 – Des 2022**
- Built advanced desktop applications using JavaFX with an OOP approach, ensuring code modularity and scalability.
- Designed an interactive and intuitive user interface using FXML, significantly improving user experience.
- Integrated MySQL with JDBC for efficient data management, ensuring smooth and reliable database connectivity.
- Implemented key features such as inventory management, sales monitoring, and user productivity by 40%.

LICENSES & CERTIFICATIONS

- Meta Backend Developer Professional Certificate, Coursera – 2024
- Foundational C# with Microsoft, freeCodeCamp - 2024
- Python, HackerRank – 2024
- C, Sololearn - 2023
- Gemastik XV UI/UX, Puspresnas - 2022

EXPERTISE

- Programming Language: HTML, CSS, JavaScript (Node.js), Java (Spring), Go, Dart, Python, C#
- Framework: Bootstrap, Tailwind CSS, React JS, Express JS, Laravel, Flutter, ASP.NET, Django, Flask
- Version Control: GIT, GitHub
- Tools: Google Cloud, AWS, Jira, ZAP
- Database: MySQL, MongoDB, Firebase
- Soft Skills: Adaptability, Leadership, Collaboration Synergy, Analytical Thinking, Innovative Problem Solving