HAFIZ ARYAN SIREGAR

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I am a last year student with specialized expertise in CodeIgniter 4 framework and two year of hands-on experience developing information systems and implementing testing solutions. Demonstrated success in creating robust test cases and generating comprehensive technical reports. Currently serving as a Cohort at Bangkit Academy 2024 Batch 2, where I contribute technical expertise and share knowledge with the developer community. Passionate about advancing software quality through effective testing methodologies and staying current with emerging technologies.

Education

State Islamic University of Sultan Syarif Kasim Riau – Pekanbaru, Riau   **Sep 2021 - Present**
Bachelor's degree, Information System, 3.84/4.00

- Related courses: Algoritm and Programming, Management of Database, Analysis and Design Information System, Software Engineering, Testing and Implementation of Information System.

Experience

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka   **Aug 2024 – Present**
Cloud Computing Cohort

- Selected as a Cloud Computing Cohort in a prestigious industry-leading program, gaining comprehensive expertise in Google Cloud technologies including App Engine, Kubernetes, Compute Engine, and Cloud Run.
- Led a cross-functional capstone project team of 7 members, developing "Daisy" - an innovative machine learning-powered skin disease detection mobile application.
- Architected and implemented critical backend infrastructure, including secure authentication APIs (login, register, reset-password, logout) using Node.js, deployed on Firebase and Google Cloud Run.
- Collaborated with machine learning and mobile development teams to create and deploy machine learning model APIs using advanced cloud computing techniques.
- Demonstrated leadership in project management, coordinating efforts across multiple technical domains including cloud computing, machine learning, and mobile development.
- Developed scalable cloud solutions that integrated machine learning capabilities to create a practical healthcare technology application.

Laboratory of Information System UIN Suska Riau – Pekanbaru, Riau   **Mar – Nov 2023**
Lead of Developer Team (Full Stack Developer)

- Led the full-stack development of an Inventory Information System using PHP and CodeIgniter 4 Framework, successfully streamlining laboratory equipment management and tracking, which resulted in improved operational efficiency and data accuracy.
- Enhanced organizational decision-making by conducting advanced data analysis on laboratory equipment system reports, generating actionable insights that optimized resource allocation and operational efficiency.

Project

Sistem Informasi Inventaris Laboratorium (SITARIS) – Pekanbaru, Riau   **Mar – Nov 2023**
Full Stack Developer

- Architected a comprehensive laboratory inventory management system using CodeIgniter 4, PHP 8, and MariaDB, implementing advanced features including detailed audit logging, rapid equipment search, and borrowing/maintenance tracking.
- Developed a responsive and intuitive user interface utilizing HTML5, CSS3, and Bootstrap 4, ensuring seamless cross-device compatibility and enhanced user experience across multiple device types.
- Implemented a robust multi-tiered role-based access control (RBAC) system, creating granular user permissions that significantly improved data security and confidentiality for different organizational roles.
- Optimized backend performance through strategic database design and efficient coding practices, achieving approximately 40% reduction in query response time and maintaining 99% system uptime.

Organization

Google Developer Student Clubs – UIN Suska Riau   **Oct 2023 – Oct 2024**
Developer and Speaker

- Developed and implemented a comprehensive learning curriculum and schedules, resulting in a 30% increase in student participation throughout the program.
- Organized and led 5+ technical workshops and webinars, boosting attendee engagement by 25% and improving overall knowledge retention on key subjects.

- Focused on delivering hands-on content in Machine Learning, Mobile App Development, Cloud Computing, and Web Development, contributing to a 40% rise in student project completions in these areas.

HIMA Program Studi Sistem Informasi – Science and Technology, UIN Suska Riau   May 2023 – Jan 2024
Head of Education, Research, and Technology Division
- Spearheaded the Research and Technology Division within the Information Systems Student Association at UIN Suska Riau, driving impactful collaborations with external organizations on key technology topics.
- Streamlined team roles and responsibilities, enhancing overall productivity and ensuring seamless operational efficiency.
- Partnered with the media team to strategically craft and curate engaging content for the association's social media, boosting online presence and audience engagement.

Committee

Chief Executive – Forum Ta'aruf Sistem Informasi (FORTASI)   Sep – Oct 2022
- Led comprehensive event planning and execution for the Information Systems orientation program, successfully coordinating a 50+ person committee across five strategic divisions.
- Developed and implemented a structured event management approach, ensuring 100% alignment with programmatic objectives and enhancing new student integration.
- Demonstrated leadership by creating comprehensive operational strategies, managing team dynamics, and delivering a seamless orientation experience.

Volunteer

ICT Exchange Programme – UIN Suska Riau x International Islamic University of Malaysia   Nov – Dec 2023
- Facilitated cross-cultural academic collaboration between Indonesian and Malaysian students through a comprehensive 3-day Information and Communication Technology exchange program.
- as a campus tour guide, showcasing key institutional facilities including classrooms, computer laboratories, and administrative offices at UIN Suska Riau.
- Participated in community development initiative by conducting a seminar on village information system implementation, focusing on digitizing administrative document management for local communities.
- Acted as a cultural ambassador, introducing Malaysian participants to traditional Indonesian cuisine and cultural practices.

Entrepreneurship Seminar – Collaboration Facultys Related with Entrepreneur Course   Nov – Dec 2022
- Increasing the participation of seminar participants to more than 400+ people in holding large-scale seminars.
- Ensure the smooth running of the Entrepreneurship Seminar by coordinating and providing complete equipment.
- Ensure the smooth running of the event by ensuring the availability of equipment and materials according to needs.

Certification

Technical Certifications
- **Menjadi Google Cloud Engineer** (Dicoding, Nov 2024)
- **Belajar Membuat Aplikasi Back-End untuk Pemula dengan Google Cloud** (Dicoding, Nov 2024)
- **Google Cloud Computing Foundations Certificate** (Google Cloud Skills Boost, Oct 2024)
- **Software Testing** (ZilLearn, Jan 2024)
- **Networking Devices Configuration** (Cisco Networking Academy, Jan 2024)
- **PHP & MySQL Certification** (Udemy, Oct 2022)

Technical Skills

- **Programming Languages:** PHP, Javascript, Python
- **Web Technologies:** HTML5, CSS3, Bootstrap 4
- **Frameworks:** CodeIgniter 4,
- **Databases:** MySQL, MariaDB
- **Tools:** Figma, Visual Studio Code, Astah, Github, Netlify
- **Cloud Platforms:** Google Cloud

Language, Acchievements and Others

- **Language:** English (Beginner)
- **Publications (2023):** Comparison of Classification Algorithm Performance for Diabetes Prediction
- **Achievement (2019):** Runner Up Duta Bahasa Pelajar Sumatera Utara 2019
- **Achievement (2019):** Best Speaker 2019 Smansa Barumun Indonesian Language Debate Competition
- **Achievement (2019):** Best Male Student Smansa Barumun 2019
- **Interests:** Web Development and Software Testing
- **Another skill:** Organizational skills, leadership, detail oriented, resilient, analytical thinking, public speaking