Jasfer S. Daniel

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COMPUTER SCIENCE & PROGRAMMING

Motivated software engineer graduating with a Bachelor of Science in Computer Science and a solid foundation in software development. Specialized in full-stack web development using the modern TALL stack (Tailwind CSS, Alpine.js, Laravel, Livewire), with additional practical experience in building applications using the ASP.NET Framework and Model-View-Controller (MVC) design patterns. Proficient in database design and management and passionate about writing clean, maintainable code. Eager to apply technical skills to build scalable, efficient applications and contribute immediately to real-world projects as a collaborative team member.

KEY COMPETENCIES

- Analytical Skills
- Easily Adaptable
- Team Member
- Time Management

- Effective Communication
- ASP.Net Framework
- TALL STACK Framework
- Web Development

- Database Management
- Python
- Java
- C#

PROFESSIONAL EXPERIENCE

Commission on Filipinos Overseas (CFO)
Software Engineer Intern   **July 2024 - August 2024**

- Learn ASP.NET MVC 5
- Application of the ASP.NET MVC 5 Knowledge by Creating a Cinema Ticketing Website
- Retrieve and Analyze Data in SQL Server Express LocalDB
- Understanding how SQL/Database Queries Work and how to query your data properly
- Using Bootstrap for the Front-End
- Debug any errors in the codebase and improve code structure

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EDUCATION

Bachelor of Science in Computer Science   **2021 - Present**
Pamantasan ng Lungsod ng Maynila

TVL – ICT   **2019 - 2021**
Philippine Christian University

PROJECTS

RISK ASSESSMENT OF Manila Consultants
Fields: Cybersecurity
- Conducted a risk assessment for Manila Consultant as part of the Information Assurance and Security (IAS) course.
- Identify any potential vulnerabilities by conducting an Interview in the company.
- Perform risk assessment by using the NIST Cybersecurity Framework.

- Provide an Implementation Plan that can Mitigate risk for the company.
- Recommended recovery plan with a strategy and its implementations and Gantt Chart for Manila Consultants.

PLM School ERP System (Document Routing System Module)
Fields: Software Engineering
- Led the development of the DRS module for the PLM School ERP system as the lead programmer.
- Used the TALL STACK Framework (Tailwind CSS, Alpine.js, Laravel, Livewire) for both Front-End and Back-End.
- As for Database, we used MariaDB for Database Schema and Database Management.
- The teams used Agile software development during the development of the Module.
- Collaborate with other Module Teams for the full operations of the PLM School ERP System.
- Maintain clean and scalable code structure and manage database design and its relations for other module databases.

C-Lither Compiler
Fields: Compiler Design
- Designed the language's rules, syntax, semantics, and features inspired in C Structure and Python.
- Created and used Test-Script for the C-lither Compiler that can check and analyze the accuracy of the system in terms of lexical, syntax, and semantics structure.
- Created a comprehensive transition diagram to model the finite-state automaton of the lexical analysis phase, reducing ambiguity in token parsing.
- Used the diagram to guide the development of regex engines and ensure 100% coverage of language tokens.
- Assisted the main programmer in identifying and fixing logical bugs within the DFA implementation, using systematic unit tests to isolate failure cases and restore full language coverage.

Project V
Fields: Mobile Application Development
- Designed the app's wireframes and high-fidelity mockups in Figma, ensuring consistency with the company's brand guidelines.
- End-to-end development of a cross-platform mobile application using Flutter in Android Studio, delivering a responsive UI/UX.
- Implemented core front-end features, including custom widgets, navigation flows, and state management.
- Integrated Firebase Firestore for data persistence—architected collections and queries to securely create, read, update, and delete user data.

Enhanced Conflict-Based Search Algorithm (CBS)
Fields: Algorithms
- Implemented the core CBS algorithm with a proposed enhancement in Python to solve multi-agent pathfinding problems, handling dynamic conflict detection and resolution.
- Developed a simulation framework that generates random grid-world scenarios, visualizes agent movements, and logs conflict instances for analysis.
- Evaluated algorithm performance across varying map sizes and agent counts, producing metrics on runtime, memory usage, and solution optimality.
- Documented simulation results and presented comparative charts demonstrating Enhanced CBS vs Original CBS.

HariMerch: A PLM Merchandise Website
Fields: Graphics and Visual Design
- Designed responsive UI/UX wireframes and high-fi mockups in Figma for both mobile and desktop views, ensuring brand consistency and intuitive navigation.
- Built interactive prototypes with clickable components and user flows, enabling stakeholders to experience key features (e.g., product browsing, cart checkout) pre-development.
- Documented detailed design specifications and component behavior (color palettes, typography, spacing, interaction states) to guide implementation and maintain design system integrity.