Esfar Mohammad

Computer Science
Herbert Wertheim College of Engineering

📞 +1-561-377-4741
🌐 mohammadeimmam.github.io
✉ esfar500@gmail.com
in LinkedIn Profile

EDUCATION

University of Florida *Aug 2021- May 2024*

Bachelor of Science in Computer Science & Minor in Digital Arts and Sciences

EXPERIENCE

Deloitte *2024 - Current*

Solution Analyst, System Design and Engineering Lake Mary, FL

– Designed, developed, and maintained complex ETL pipelines to support a large-scale data warehouse and OAS reporting system. Contributed to both new development and production maintenance by creating and optimizing ETLs, integrating data from multiple departments, and authoring/tuning advanced SQL queries to power complex reports with high accuracy, reliability, and performance.

– Partnered with a government client as part of a specialized team conducting impact analysis for a new facility, assessing technical IT elements requiring change. Performed deep analysis of facility-specific systems and queries to evaluate dependencies, ensure continuity, and guide modernization efforts.

– Leveraged AWS cloud services and an internal GitHub Copilot certification to accelerate development, enhance scalability and reliability, improve code quality, and deliver forward-thinking solutions within agile workflows.

University of Florida, Enrollment Management, IT *2021-2024*

Software Engineer, FWS Position Gainesville, FL

– Designed and developed a fully interactive **Organizational Chart application** featuring live data integration, incorporating an administrative control system implemented using JavaScript and PHP.

– Created and implemented a comprehensive User **Speed Dial Management System**, serving **over 300+** phones, with an intuitive admin portal. Developed in PHP, this system allows administrators to efficiently manage various aspects, optimizing communication channels and significantly improving productivity and operational efficiency across the organization.

– Developed a dynamic **Email Signature Creation Tool** using **JavaScript**, with **PHP** integration for user data retrieval. This application generates custom email signatures, enabling users to easily create and apply them to their email platforms. A key feature includes the application's ability to adapt to any signature template, automatically generating relevant form fields and incorporating available user data.

Tow-2-Tow *2022*

Software Engineer Intern Gainesville, FL

– Spearheaded the development of a cutting-edge tow service application, utilizing **Flutter** and adopting the **BLoC methodology**, resulting in a user-friendly platform comparable to popular ride-hailing apps.

– Collaborated with a team of developers to architect and build a scalable tow truck service app, utilizing Flutter's BLoC pattern to handle complex business logic, enhance code reusability, and maintain a clean and modular codebase.

PERSONAL PROJECTS

PLC Language Compiler *2023*

A compiler built for a custom programming language for UF's Programming Language Concepts class | Java

– Developed a custom programming language (PLC Language) and its compiler, focusing on **parsing**, **lexical analysis**, and **code generation**. This project emphasized the implementation of language features such as control structures, type checking, and image processing operations.

Emote-it *2021*

Emote It is an emoji-based social communication platform. | MERN | Available on the Internet.

– The development procedure resulted in an enhanced comprehension of **REST API**, as well as improved understanding of **React** and **NoSQL** database concepts.

– The development procedure contributed to a reinforced understanding of programming logic, while also providing practical experience in visual and 3D development. Additionally, a solid comprehension of event-driven programming in Unity allows for the creation of immersive and interactive experiences.

TECHNICAL SKILLS

Languages: Java, C++, C#, Python, JavaScript, PHP
Developer Tools: JetBrains IDEs, Visual Studio, Blender, Unity
Database Platforms: OracleDB, MySQL, MongoDB, Firebase
Cloud Platforms: AWS

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Intro to Machine Learning
- Computer Science I & II
- Computer Network Fundamentals
- Enterprise Software Eng.
- Information and Database Systems