

# Esfar Mohammad

Computer Science  
Herbert Wertheim College of Engineering

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## EDUCATION

### University of Florida

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

Aug 2021–May 2024

## EXPERIENCE

### Deloitte

Solution Analyst, System Design and Engineering

2024–Present

Lake Mary, FL

- Engineered **ETL pipelines** for a large-scale government data warehouse, integrating 10+ departmental sources and **reducing report generation time by 40%**. Designed and optimized **SQL queries** powering 200+ monthly OAS reports with high accuracy and reliability.
- Conducted **impact analysis** for a new facility, assessing dependencies across mission-critical IT systems and evaluating SQL/reporting workflows to ensure modernization readiness and business continuity.
- Leveraged **AWS cloud services**, advanced SQL query tuning, and GitHub Copilot to enhance scalability, improve code quality, and accelerate agile delivery of enterprise solutions.

### University of Florida, Enrollment Management, IT

Software Engineer, FWS Position

2021–2024

Gainesville, FL

- Built an **Organizational Chart web app** with live data integration and admin controls (JavaScript + PHP), deployed to 300+ staff members.
- Developed a **Phone Speed Dial Management System** (PHP/MySQL) for 300+ phones, streamlining communication and **boosting operational efficiency by 25%**.
- Created a **Dynamic Email Signature Generator** (JavaScript + PHP) that auto-adapts templates with user data, enabling 300+ faculty/staff to easily generate branded signatures.

### Tow-2-Tow

Software Engineer Intern

2022

Gainesville, FL

- Co-developed a scalable tow-service application in **Flutter (BLoC pattern)**, modeled after ride-hailing apps.
- Improved code modularity and reusability, enhancing delivery speed for core business logic in a production environment.

## PERSONAL PROJECTS

### PLC Language Compiler

Java | UF Course Project

2023

- Built a compiler for a custom programming language, implementing **lexical analysis, parsing, type checking, and code generation**, including control structures and image-processing operations.

### Emote-It

MERN Stack Social Platform

2021

- Developed a full-stack communication app using **MongoDB, Express, React, Node.js** with REST APIs, authentication, and scalable NoSQL data models.
- Reinforced backend expertise in event-driven programming and gained practical experience in **scalable API design and database modeling**.

## TECHNICAL SKILLS

**Backend:** Node.js, C#, Java, Python, PHP  
**Frontend:** React, JavaScript, Flutter  
**Databases:** OracleDB, MySQL, MongoDB, Firebase  
**Cloud:** AWS (ETL, deployment, scaling)  
**Tools:** Git, Visual Studio, JetBrains IDEs, Unity, Docker

## RELEVANT COURSEWORK

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