St. Joseph, LA

Peter L. Sakr

Software Engineer

(438) 526-1254
peter.l.sakr@gmail.com
linkedin.com/in/peterlsakr

Summary

I am a dedicated Software Engineer with a proven track record of success in internships at several companies. With a strong foundation in object-oriented programming principles and a keen eye for code optimization, I excel in debugging, refactoring, and ensuring code stability. My experience involved using agile methodologies, enhancing client-facing software, and developing backend endpoints. My innovative approach to problem-solving makes me a valuable asset in any software engineering team.

Skills

- Python; Java; C#; JavaScript; TypeScript; .NET; ReactJS
- SQL; PostgreSQL; MongoDB; Neo4J; Docker; Git; Linux OS
- English (native); Arabic (native)

Employment

Software Engineer, Intern — **Morgan Stanley** — **May 2023 – August 2023**

- Led standup and retro meetings to facilitate agile methodologies during weekly sprints.
- Identified and reported bugs during testing, and ensured code stability by reviewing pull requests.
- Reduced technical debt and improved codebase by debugging and refactoring, following OOP principles.
- Enhanced frontend interfaces and developed backend API endpoints using REST technology.

Unity3D Developer, Intern — **Oreyeon LDA** — **January 2022 – May 2022**

- Leveraged Unity3D C# Perception package to design simulations and streamline data generation for internal company use, significantly reducing data collection time from several hours to just minutes.
- Created 3D environments based on pre-made assets for specific data output.
- Produced comprehensive documentation for team onboarding.

Software Engineer, Intern — **BMW Group** — **March 2020 – July 2020**

- Optimized codebases through extensive refactoring.
- Migrated a file-based app to a MongoDB database for multi-user collaboration.
- Engineered a custom pathfinding system with A-Star algorithm for generating AI paths in milliseconds.
- Implemented state machines in C# for 3D scene vehicle movements.

Education

Concordia University — **August 2022 – May 2024**

- **M.Eng in Software Engineering**. GPA: 4.07/4.30

Lebanese American University — **August 2017 – May 2022**

- **B.E in Computer Engineering**. GPA: 3.93/4.0

Technical Experience

Projects

- **First Responder System** Developed a comprehensive system comprising a desktop application and two mobile applications using JavaScript. Facilitated seamless real-time communication between base and field first responders. Established communication channels through a robust API, leveraging the Parse Server backend and Postgres Database for efficient data management and retrieval.
- **Image-based Age Classifier** Designed and implemented an Image-based Age Classifier utilizing the Scikit-Learn library. Initially employed a K-Nearest Neighbors machine learning algorithm, achieving a raw prediction accuracy of 90.1%. Subsequently, upgraded the project to incorporate Convolutional Neural Networks (CNNs) for enhanced accuracy and the ability to predict a more specific age range.