Omar Elasfar

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Bachelor of Science in Computer Science, Software Engineering Stream, Co-op

Expected 2027
Ottawa, ON

Carleton University

- Major CGPA: 11.75/12.0 (A)
- Courses: Systems Programming, Software Engineering, Operating Systems, Relational Databases, Data Structures & Advanced Algorithms, Object-Oriented Programming, Functional Programming, Discrete Structures
- Achievements: Minor in Statistics, Deans' Honour List 2024, Golden Key International Honour Society

SKILLS

Languages: Java, C, Python, JavaScript, SQL, HTML, CSS/SCSS, Haskell, Bash, R, VB.NET

Technologies: REST APIs, CRUD, HTTP Requests, Machine Learning (ML), JSON, XML

Developer Tools: Git, Linux (Ubuntu), SQLite, PowerShell, GitHub, VS Code, IntelliJ, Oracle VM

Competencies: Communication, Creativity, Passion, Collaboration, Problem-Solving, Initiative, Teamwork

EXPERIENCE

Android Application Tester/QA Engineer

Sep 2024 – Present

Remote

Quran

- Conducted rigorous **testing** and **debugging** of an educational **Android app** by performing tests across multiple devices and versions, reporting **15+ bugs** to developers, resulting in improved functionality and reliability.
- Designed and implemented **test cases** by developing **manual** and **automated testing** procedures using **Python frameworks**, increasing test coverage and enhancing the application's overall reliability.

Computer Science Teaching Assistant

Sep 2024 – Present

Carleton University

Ottawa, ON

- Guided **60+** students in mastering **software engineering** by offering personalized office hours, detailed feedback, and interactive labs, resulting in a **50%** increase in coding proficiency.
- Assisted students in **troubleshooting** and optimizing **Python** codebases through targeted guidance and problem-solving strategies, prompting a **70**% reduction in error rates.

Freelance Software Engineer

Apr 2024 - Sep 2024

stockEZ

Ottawa, ON

- Designed and delivered a **full stack** inventory **desktop application** by utilizing **Java object-oriented** principles for **back-end** development and **JavaFX** with **CSS** for **front-end**, delivering a robust system and responsive **UI**.
- Integrated Google API to fetch and update data dynamically, which improved application functionality.
- Used Git and GitHub for version control, facilitating collaboration and continuous updates of the software.
- Conducted unit testing and debugging to enhance software reliability, decreasing technical problems by 99%.

Projects

CarMatch AI | Python, JavaScript, SQL, Machine Learning, HTML/SCSS

Ongoing

- Developed a **web application** to match users with their most suitable car based on their preferences using **artificial intelligence** (AI) algorithms to enhance the recommendation process.
- Developed a Multiple Linear Regression (MLR) statistical model employing machine learning (ML) techniques in Python to analyze user ratings and predict optimal car recommendations based on selected features.
- Scraped and stored real-time car data from various sources using Python and SQL, ensuring up-to-date data.
- Implemented a user-friendly interface using JavaScript for seamless interaction and dynamic content display.

MyPal | Python, JavaScript, SQL, REST API, Twilio, Git, HTML/CSS

Ongoing

- Founded and developed a **full stack application** to address a consumer need for a text-based reminder software while providing a user-friendly web app using **JavaScript** and **HTML/CSS** for the **front-end**.
- Built a back-end using Python, integrated Twilio service for mobile notifications, and incorporated time, geolocation, and mapping APIs to enhance location-based accuracy and improve user experience.
- Designed and implemented an SQL database to store user information, ensuring enhanced data management.

Blocked List Data Structure | Java

Jun 2024

- Designed a new data structure using Java and complex algorithms concepts, successfully implementing core list functionalities such as add, remove, set, and get efficiently.
- Achieved a performance improvement of over 50% in dynamic list operations compared to traditional list
 implementations by creating optimal add and remove algorithms.

Hack-the-Tunnels Hack-a-thon | JavaScript, TypeScript, ReactJS, Prisma, Express, Git, HTML/SCSS | Sep 2023

- Led a team to transform a basic **website** into a dynamic, user-friendly **web application** by coordinating efforts using **Git** and **GitHub** and implementing advanced features, addressing technical challenges efficiently.
- Secured a 1st-place finish in the competition by earning a score of 73 points, displaying technical proficiency.