Omar Elasfar

Ottawa, ON | 613 558-4501 | omarelasfaregy17@gmail.com | linkedin.com/in/omar-elasfar/ | github.com/elasfaromar

EDUCATION

Bachelor of Science in Computer Science, Software Engineering Stream, Co-op *Expected 2027*
Carleton University *Ottawa, ON*
- **Major CGPA**: 11.75/12.0 (A)
- **Courses**: Systems Programming, Software Engineering, Operating Systems, Relational Databases, Data Structures & Algorithms, Object-Oriented Programming (OOP), Functional Programming, Advanced Discrete Structures
- **Achievements**: Minor in Statistics, Deans' Honour List 2024, Golden Key International Honour Society

SKILLS

Languages: Java, Python, C, JavaScript, SQL, HTML, CSS, Haskell, R, VB.NET
Developer Tools: Git, SQLite, Linux (Ubuntu), Bash (PowerShell), Android, GitHub, Oracle VM, VS Code, IntelliJ
Competencies: Communication, Collaboration, Passionate, Time Management, Punctuality, Initiative, Teamwork

EXPERIENCE

Computer Science Teaching Assistant Sep 2024 – Present
Carleton University *Ottawa, ON*
- Guided **60+** students in mastering **software engineering principles** by offering personalized office hours, detailed feedback, and interactive labs, resulting in a **50%** increase in coding proficiency.
- Assisted students in **troubleshooting** and optimizing codebases through targeted guidance and problem-solving strategies, prompting a **70%** reduction in error rates.

Android Application Tester/QA Engineer Sep 2024 – Present
Qurani *Remote*
- Conducted rigorous **testing** and **debugging** of an **Android app** by performing tests across multiple devices and versions, reporting **15+ software bugs** to developers, resulting in improved functionality and reliability.
- Designed and implemented **test cases** by developing **manual** and **automated testing** procedures, increasing test coverage and enhancing the application's overall reliability.

Freelance Software Engineer Apr 2024 – Sep 2024
stockEZ *Ottawa, ON*
- Designed and delivered a **full stack** inventory system by utilizing **Java object-oriented** principles for **back-end** development and **JavaFX** with **CSS** for **front-end**, delivering a robust app and responsive **user interface**.
- 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

MyPal | *Python, JavaScript, HTML/CSS, SQL, RESTful API, Twilio, Git* Sep 2024 – Present
- 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, Data Structures* Jun 2024
- Designed a new **abstract data type** using **Java** and complex **data structures** and **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 Hackathon | *HTML/SCSS, Java/TypeScript, ReactJS, Prisma, Express, Git* 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.

Store Manager's Tool | *Java, GUIs, Object-Oriented Programming* Dec 2022 – Jan 2023
- Developed a software system using **Java** with **graphical user interfaces**, enhancing **user experience** and maintaining **100%** robust performance by optimizing data input/output processes.
- Implemented **object-oriented programming** principles such as inheritance and **polymorphism** to improve scalability as well as designing **algorithms**, reducing runtime by **80%** and enhancing overall software efficiency.