Yahia Walid El Alfy

GitHub: Yahia-El-Alfy   LinkedIn

Contact Information

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Education

Cairo University
Faculty of Computer and Artificial Intelligence
Bachelor of Software Engineer in Computer Science graduating 2024

Technical Skills

- **Languages & Frameworks:** Flutter, Dart, Go, Java (EE/SE), Python, C++, Verilog HDL, JavaScript (Angular), HTML, CSS
- **Development Tools:** Docker, Red Hat OpenShift, Git, GitHub, Jira, Trello, Selenium, Robot Framework, JUnit, Burp suit.
- **Database Management Systems:** PostgreSQL, MySQL
- **Operating Systems:** Red Hat Enterprise Linux
- **Software Design & Architecture:** Object-Oriented Programming (OOP), Microservices Architecture
- **Machine Learning:** SVM, Neural Networks, Convolutional Neural Networks
- **Assembly Language:** 32-bit Intel syntax assembly
- **Algorithms & Data Structures**

Projects Experience

Pet Sitter App (Graduation Project) Github

Using Flutter, Dart, Node.js, PostgreSQL, Firebase

- Developed a comprehensive pet sitting application with two separate apps: one for clients (pet owners) and one for service providers.
- Implemented functionalities such as clinic reservations, pet boarding services, pet walking, pet grooming, and pet sitting.
- Worked on the backend and designed the UI in Figma.

Clinic Reservation System Github

Using Go, Angular, MySQL, Docker, Red Hat OpenShift

- Designed and implemented a complete clinic reservation system.
- Containerized the application frontend, backend and database using Docker and deployed it on the Red Hat OpenShift platform.

Student-Instructor Service Github

Using Java EJBs, Spring Boot, PostgreSQL, MySQL, JBoss/Wildly, Tomcat

- Developed a microservice architecture-based classroom-like service for students and instructors.
- Built the entire application from scratch.

Flight Reservation System Github

Using HTML, CSS, PHP, JavaScript, phpMyAdmin, XAMPP

- Developed a flight reservation system for both company and client use.
- Enabled clients to view and search for flights, book tickets, and make payments using credit cards.
- Allowed companies to register, add flights, and manage flight operations.
- Utilized phpMyAdmin for database management and XAMPP for server deployment.

Vulnerability Assessment and Remediation Project

Using Burp Suite, Foxyproxy

- Conducted a comprehensive vulnerability assessment on the AltoroJ application from GitHub.
- Identified and fixed 18 vulnerabilities, including SQL injection, link injection, XSS, and integer overflow.
- Used IntelliJ for setup and Burp Suite for testing.
- Documented the process and ensured all vulnerabilities were resolved.