

Muhammad Kelany Zahran

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Education

Cairo University: B.S. in Computer Science and Artificial intelligence.

September 2019 – June 2023

- **Concentration:** Software
- **GPA:** 3.1

Professional Experience

Software Engineer, Blink

2023/09 - Present

- Engage in consumer finance solutions, specializing in loan provision to customers.
- Utilize Django and React for the development of web-based applications and interfaces.
- Collaborate on system-level programming using C++ to enhance existing features and maintain system integrity.
- Spearhead the implementation of new functionalities and services using the Go programming language.
- Actively participate in the analysis, design, and optimization of software systems.
- Contribute to the company's technological growth through continuous learning and exploration of emerging technologies.

Computer Science Tutor, Private

2022 - 2023

- Provided individualized instruction to IGCSE grade 12 students in computer science topics including programming, algorithms, and database management.
- Developed lesson plans and assessments tailored to each student's learning style and academic goals
- Demonstrated excellent communication and interpersonal skills, building positive relationships with students and parents.

Raya IT Summer Internship, Raya

Summer 2022

- Developed network automation solutions using Python
- Worked with a team of interns to design and implement an automated network configuration system

Technical Projects

SafeLane - Innovative Obstacle Detection System for Road Safety

- Developed an innovative obstacle detection system using machine learning and camera integration for real-time detection and classification of road obstacles. Empowers drivers with obstacle information on google maps API on the flutter mobile application and provides visualized reports for government action on the React website.
- Technologies used: Python, Firebase, Spring Boot (Java), React, Flutter, Maps API.

Loan Bank Management System

- Designed and implemented distinct user roles, including Bank Personnel, Loan Provider, and Customer, to optimize user access and control.
- Ensured high-quality code by creating a suite of unit tests for code validation.
- Implemented end-to-end testing with Selenium to automate comprehensive testing of the system's functionality, ensuring a smooth and reliable user experience.

Shopping App

- Developed a microservices-based backend for a shopping application using Java and Jakarta EE REST API JAX-RX framework.
- Implemented RESTful APIs for communication between microservices, including user authentication, product catalog, and checkout functionality.
- Developed a web-based front-end using React, which calls the HTTP requests of the microservices to communicate with each other and display product information and purchase options.

Technical Skills

- **Programming languages:** C++, Java, Python, PHP, R, NodeJS, HTML, CSS, JavaScript.
- **Frameworks:** Flutter, React, Angular, Django, Vue.js, Vuetify.
- **Databases:** SQL, MySQL, Oracle, Big Query, MongoDB.
- **Other:** Docker, Open Shift, Kubernetes, Data Structures, Algorithms, Networking, Security, GitHub, Jira, UML, Data Analysis, Tableau, Agile, Junit, Maven, SpringBoot.

Extra-curriculars

- **Google Data Analytics Professional Certificate, Coursera (2023)**
- **ISTQB Foundation Level Certification (2022)**
- **Flutter Workshop with GDSC - Cairo University FCAI**
- **Red Hat Application Development I: Programming in Java EE (AD183)**
- **Red Hat OpenShift I: Containers & Kubernetes (DO180)**
- **Supervised Machine Learning: Regression and Classification**