

# Ali Mohamed

## Software Engineer

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### SUMMARY

- Software Engineering student with a strong foundation in data structures, object-oriented programming, and software development, with a growing focus on artificial intelligence and machine learning. Experienced in building applications and exploring data-driven solutions using modern technologies. Seeking an AI/ML internship to apply analytical and programming skills, contribute to intelligent systems, and gain hands-on experience with real-world machine learning projects.

### EDUCATION

#### Ain Shams University, CHP Double Degree with University of East London | 2023-2027 (Expected)

Software Engineering Major

- Current CGPA : 3.5

### TECHNICAL SKILLS

- Frameworks & Tools: Qt, Windows Forms, JavaFX, SFML, Oracle SQL, MySQL
- Data Analysis & ML: Python (pandas, scikit-learn), Matplotlib, Regression, Classification, Clustering, Charting, Histograms
- UI/UX Development: GUI design, modern graphical interfaces, user-focused desktop applications
- Version Control & Dev Tools: Git, GitHub, Visual Studio, VSC.
- Databases, PL/SQL, Data analysis.
- Data Structures and algorithms, Object-Oriented Programming, Operating System.

### SOFT SKILLS

- Fast Learner: Quickly adapts to new tools, technologies, and challenges
- Problem Solving: Excellent at debugging and identifying code issues rapidly
- Team Collaboration: Experience working on group projects with defined roles
- Attention to Detail: Strong focus on clean code, usability, and efficiency
- Excellent English Proficiency

### PROGRAMMING LANGUAGES

- C++, C#, Java, Python, Ada, sql

### EXPERIENCE

#### Android Developer Trainee (Information Technology Institute – ITI)

- Completed an intensive one-month training program in Android development using Kotlin and Android Studio
- Developed hands-on mobile applications, applying core Android concepts such as activities, layouts, and user interaction
- Gained practical experience in building responsive and user-friendly mobile interfaces

### PROJECTS

#### Crime Management System (OOP - C++)

- Designed a modular system applying OOP concepts for tracking and managing crime data
- Improved system scalability through structured class design

### **Machine Learning Project (Python)**

- Built predictive models using Linear Regression and Classification algorithms
- Applied K-Means clustering for pattern detection in datasets
- Performed data preprocessing, feature scaling, and visualization

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### **JavaFX Food Ordering System**

- Developed a GUI-based food ordering system using Java and JavaFX, allowing users to browse menus, customize orders, and manage a shopping cart.
- Applied the MVC architecture to separate logic, UI, and data handling, improving maintainability. Implemented key design patterns including Singleton (shared resources), Factory (object creation), and Observer (real-time UI updates).
- Designed the system with a modular structure, making it easy to extend with additional features like payments or order tracking.

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### **Database Management System**

- Designed and developed a system for efficient data storage, retrieval, and querying
- Applied relational database concepts and normalization to ensure data integrity and reduce redundancy
- Wrote optimized SQL queries to enhance performance and support reliable data operations

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## **CERTIFICATES**

- Microsoft Certified: Azure AI Fundamentals (AI-900) – Microsoft
- IELTS Academic – Score: 7.0 (English Proficiency)
- Information Technology Institute (ITI) – Completed an intensive one-month Android development course