Ahmed Nassar

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Education

Modern Academy in Maadi   **Sep 2021 – Jun 2025**
Bachelor of Computer Science   *Cairo, Egypt*
- **CGPA**: 3.6/4.0
- **Relevant Coursework**: Databases, Data Structures & Algorithms, OOP, Operating Systems, Software Engineering, Mobile and Web Development, AI, ML, Mathematics, Distributed Systems, Embedded Systems, and Networking.

Information Technology Institute   **Aug 2024 – Sep 2024**
Full Stack Web Development using Python Scholarship   *Cairo, Egypt*
- Learned HTML, CSS, Bootstrap, JavaScript, React, Firebase, PostgreSQL, Python, Django, APIs, and Postman.
- Built a **Movie Website** that allows users to create accounts, rate films, save favorites, and view movie information.
- Developed an **E-commerce Platform** with user authentication, shopping cart, order tracking, and product catalog.

Experience

Orange Digital Center   **Sep 2024 – Oct 2024**
Software Engineer Intern   *Cairo, Egypt*
- Implemented a **task management system** using **Python** and **Django**, featuring creating, editing, and deleting tasks.
- Developed a **finance management app** in **Python**, automating balance updates and budget notifications.
- Worked with **relational** and **non-relational databases**, including **SQL**, and **NoSQL**, and their **design principles**.
- Applied knowledge of **software architecture**, **design patterns**, **microservices architecture**, and **MVC**.
- Built skills in **software security**, **agile methodologies**, and **automated testing techniques**.

Nokia   **Aug 2023 – Oct 2023**
Software Engineer Intern   *Cairo, Egypt*
- Designed a system for detecting and resolving **code vulnerability**, improving **system performance** and **integrity**.
- Reduced **detection time** by **30%**, and improved **security** by **25%** using **Bandit** and **SonarQube**.
- Maintained **full-stack applications**, optimizing **API response times**, **cloud integration**, and **CMS**.
- Conducted **unit**, **integration**, and **mock testing** with **Pytest** and **Postman** to ensure code quality.

Technical Skills

Programming Languages: C++, Python, Java, C#, JavaScript, TypeScript, HTML, CSS, SQL
Frameworks and Libraries: React, Django, .Net, Bootstrap, jQuery, SCSS, Redux, Axios, AJAX, Firebase, Postman
Tools and Platforms: Git, GitHub, Azure, AWS, Docker, Kubernetes, Linux, MySQL, PostgreSQL, MongoDB, NoSQL
Concepts: Design Patterns, Unit Testing, System Design, SOLID Principles, Microservices, APIs, CI/CD, Clean Code, Agile

Projects

Pizza Ordering System | *Java, SQL, Java Swing, VS Code*
- Created a **Java** pizza ordering system using **OOP**, **SQL** for **database management**, and **Java Swing** for the **GUI**.
- Coded **data structures** and **algorithms** for efficient data retrieval and shortest path calculations.

Weather Application | *HTML, CSS, JavaScript, React, Material-UI, APIs, VS Code*
- Designed and developed a weather app using **React** and **Material-UI**, featuring a modern and user-friendly interface.
- Integrated an **open API** for real-time weather data retrieval, providing up-to-date weather information.

Chat Application | *Java, SQL, Java Swing, Netbeans*
- Developed a real-time chat application using **TCP/IP** socket programming, **Java Swing** for the GUI, **SQL** for message storage and retrieval, and **OOP** for modularity, enabling instant messaging and support for multiple client connections.

Lufthansa | *C#, .NET Framework, Windows Forms, Visual Studio*
- Created an **Airport Management System** in **C#** using **Windows Forms** for managing records in **binary files**.
- Implemented features for various operations on records and data retrieval using **hashing** and **B+ Tree Structure**.

Operating System Simulator | *Java*
- Built a **Java OS simulator** with **round-robin scheduling**, disk swapping, and virtual memory support
- Implemented **mutex-based** memory protection for input/output, file handling, and multi-process synchronization.

Awards & Honors

Founder of Software Engineering Community   **Feb 2024**
GitHub & Discord   *Remotely*
- Central hub for Software Engineering opportunities, including internships, open-source contributions, events, and more.
- **Discord server** supports over **500 members worldwide** and the **GitHub repo** achieved more than **280 stars**.