MOHAMED SALAH

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Summary

Software Engineering graduate with hands-on experience in front-end and full-stack development, AI integration, and database design. Skilled in React.js, JavaScript, Python, Java, and SQL. Trained in cybersecurity and cloud infrastructure. Seeking a junior developer role to build scalable, user-focused web applications.

Education

Bachelor of Science in Computer Science | Arab Academy for Science, Technology & Maritime Transport, Abu Qir   **Sep 2021 - Feb 2025**
Major: Software Engineering | Minor: Multimedia and Computer Graphics | GPA: 3.1/4.0

High School Diploma | El-Salam Language School   **2008 - 2021**

Experience

Intern in IT   **Sep 2024 - Oct 2024**
Qatar National Bank (QNB)   Cairo, Egypt

- Tuned queries across Oracle, MySQL, and SQL Server, reducing execution time by 30% and improving system performance.
- Developed Cybersecurity expertise (risk assessment, encryption, data protection) and DevOps skills (CI/CD pipelines, cloud infrastructure), alongside networking protocols (TCP/IP, DNS, VPN), improving system security and reliability by 15%.
- Resolved 30+ technical issues in collaboration with cross-functional teams, improving up time by 15% and strengthening IT operations.

Trainee in Database Fundamentals & Java   **Aug 2024 - Sep 2024**
Integrated Solutions for Ports (ISFP)   Alexandria, Egypt

- Managed and improved relational databases using SQL and PL/SQL, executing 50+ queries per session and improving performance on large datasets by 30% through indexing and query tuning.
- Designed normalized schemas and 5+ views to streamline data retrieval, reduced redundancy by 40%, and enhance integrity across 10+ interconnected tables.
- Debugged Java applications integrated with MySQL, reducing response times by 20% and increasing application stability.

Technical Courses

Data Structures using C# – *Information Technology Institute (ITI)*   **Sep 2024 – Sep 2024**
Studied core data structures and algorithms using C#. Topics included:

- Learned and implemented core data structures (Arrays, Linked Lists, Stacks, Queues, Trees, Graphs, Hash Tables) and algorithms (Sorting, Searching) using C#.
- Applied problem-solving through hands-on coding projects, strengthening logic building and algorithmic thinking.

Software Development - React Frontend Web Developer   **Jun 2025 - Present**
Digital Egypt Pioneers Initiative (DEPI)   Alexandria, Egypt

- Learning responsive web application development with React.js, JavaScript, and TypeScript, utilizing HTML5/CSS3 for front-end design and UX/UI principles. Proficient in Git/GitHub for version control and exploring prompt engineering for AI-enhanced development.
- Progressing into Node.js/Express.js backend development, including unit testing, code style, and documentation. Future topics include Docker/Kubernetes containerization and a full-stack capstone project.

Skills

- Problem-Solving & Critical Thinking
- Communication & Presentation
- Adaptability & Quick Learning
- Team collaboration
- Troubleshooting & debugging

Languages

- **Arabic:** C2 (Native)
- **English:** B1 (Intermediate)
- **French:** A1 (Basic)

Technical Skills

- **Programming Languages:** Python, Java, C, C#, JavaScript, HTML, CSS
- **Frameworks:** React.js, Node.js, Express.js, HTML, CSS
- **Databases:** MySQL, SQL, PL/SQL, Oracle
- **Tools & Platforms:** Git, GitHub, Docker, Kubernetes, VirtualBox, Ubuntu, VS Code, IntelliJ IDEA
- **AI & Machine Learning:** Scikit-Learn, TensorFlow, Prompt Engineering
- **Networking & Security:** Wireshark, Cisco Packet Tracer, VPN, Burp Suite
- **Software Concepts:** OOP, Design Patterns, UML, REST APIs, Agile Development, Unit Testing
- **Design & UI/UX:** Gamma, Canva, MS PowerPoint, Adobe Premiere Pro, Adobe Illustrator, Adobe Photoshop, Blender

Projects

AI-Powered Voice Assistant Using ESP32-S3, Graduation Project | AAST   **Sep 2024 - Feb 2025**

- Developed a customizable AI voice assistant leveraging ESP32-S3 microcontroller, integrating Google Speech-to-Text, Text-to-Speech, and AI APIs. Optimized for limited resources, achieving 90%+ command recognition accuracy.
- Designed the initial framework for an open-source solution, with scalability plans to integrate 10+ smart home and IoT device protocols in future iterations.