AHMED SALLAM

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TECHNICAL SKILLS

Front End : C#, JavaScript, CSS, Dart, HTML, React, Next.js, Tailwind CSS

Back End : C++, C, Python, R, MongoDB, SQL Server, SQLite

Developer Tools : Azure DevOps, GitHub, Firebase, AWS, Vecel, Jupyter Notebook , Streamlit

EXPERIENCE & PROJECTS

Coding Instructor & Overseer | Codex Coding Camp   June 2024 - July 2024

Python | Turtle
- Taught Python to students aged 10-15, using the Turtle module for visual and game-based learning.
- Guided students in creating games like chess and chicken shooting, and encouraged problem-solving through projects.
- Encouraged hands-on learning through incremental challenges, enabling students to build confidence in coding.
- Collaborated with camp staff to integrate coding activities into broader camp themes, enhancing the overall experience.

Founder & Full Stack Developer | Website Building Agency   April 2025 - Present

Next.js | React | Tailwind CSS | Firebase | Vercel | GitHub
- Built and deployed modern websites for local businesses in niches like furniture and interior design, using a clean portfolio-style layout.
- Implemented real-time features such as live exchange rate fetching, dynamic service listings, and contact forms using Firebase.
- Used Next.js with Tailwind CSS for responsive, fast-loading UIs; deployed via Vercel with continuous integration from GitHub.
- Focused on SEO, performance, and scalability with reusable components, optimized images, and minimal client-side JavaScript.

Mobile Application Development | Viva Journal   February 2025 - April 2025

Dart | Flutter | Firebase | GitHub | Figma | Azure DevOps
- Designed initial UI using Figma and customized components for usability and modern aesthetics.
- Built a mobile application using Flutter with features including sign-up, sign-in, loading screen, calendar view, and reset password screen.
- Integrated Firebase for user authentication and real-time data handling.
- Used SharedPreferences to keep users logged in between sessions without needing to sign in every time.
- Implemented asynchronous operations across the app to improve responsiveness and user experience.
- Through testing, improved data rendering speed from SQLite by implementing a caching system to reduce database reads.

Full-Stack Development | Portfolio Website   May 2025

HTML | CSS | JavaScript |Live Site
- Developed a responsive personal portfolio website to showcase my experiences, projects, and contact information.
- Implemented clean, modern design with intuitive navigation to enhance user experience.
- Ensured cross-browser compatibility and mobile responsiveness.

Data Science & Machine Learning | Sales Data Analysis   March 2025 - May 2025

Python | R | Jupyter Notebook | Streamlit | Kaggle
- Implemented Linear Regression, Multiple Linear Regression, SVR, and Random Forest models for predictive analysis.
- Created APIs to automate data fetching and enhance the dataset.
- Processed and cleaned data for accurate modeling.
- Developed visualizations to reveal patterns and insights.
- Deployed the machine learning model using Streamlit.
- Gained practical experience in training, testing, and evaluating ML models on real-world data.

Software Development | POS System   **February 2024 - April 2024**

Python | Kivy | MongoDB | Github

- Developed a fully functional Point of Sale (POS) system with a login system, Admin Dashboard, and Operation window using Kivy for the front-end and Python for the back-end.
- Integrated inventory management, sales tracking, barcode scanning, and secure login with encrypted credentials.
- Boosted performance with asynchronous programming, reducing transaction processing time by 40% and UI lag by 50%.
- Designed a scalable architecture with microservices and MongoDB, enabling easy horizontal scaling and fault tolerance.
- Implemented MongoDB aggregation framework for sales insights and hosted the database on AWS.

Database Application Development | GUI Tool   **March 2024 - April 2024**

SQL Server | C# | Github

- Created a database system using SQL Server, including schema design, stored procedures, triggers, and views.
- Developed a C# Windows Forms GUI to manage and dispaly my data with intuitive navigation and robust functionality using ADO.NET.
- Collaborated with stakeholders to gather requirements and ensure functionality aligned with organizational needs.
- Protected my data against sql injetions and other threats.
- Delivered documentation and training resources for smooth adoption and deployment.

Full- Stack Development | Hospital Website (Prototype)

HTML | CSS | JavaScript

- Laid the groundwork for a hospital-themed website, including core pages and basic styling.
- Incorporated appointment forms and interactive maps to initiate user functionality.

Summer Camp Teacher and Overseer   **July 2023**

June 2020 - August 2020

- Led interactive science and math sessions for children, created hands-on experiments, and coordinated educational field trips.
- Maintained communication with parents and supported individual academic growth.
- Developed and conducted interactive lessons in physics, math, and biology for children aged 8-12.
- Designed hands-on experiments and activities to engage campers and deepen their understanding of scientific concepts.
- Maintained a safe and inclusive learning environment, fostering curiosity and exploration.
- Collaborated with camp staff to organize outdoor activities and field trips, enhancing the educational experience.
- Communicated regularly with parents to provide updates on camp activities and their child's progress.
- Offered individualized support and guidance to campers, encouraging their academic growth and confidence.

EDUCATION

Coventry University In Egypt – Bachelor of Science, Computer Science   June 2026
Salah al Din International School – American Diploma   May 2022