

Ali Osman

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TECHNICAL PROJECTS

Dictionary Web App [🔗](#)

- Developed a modern dictionary application using React, Sass, and TypeScript, featuring real-time data fetching from a dictionary API.
- Implemented key functionalities including word search, dark mode, audio pronunciations, and font customization for enhanced user experience.

Relaxify Chatbot [🔗](#)

- Utilized GPT-4 API for building a therapist chatbot customized for promoting positive mental health and resources to get help
- Deployed a chat user interface using HTML, CSS, Python, and Flask

BeatAlert Machine-Learning Model [🔗](#)

- Built a heart attack prediction model using the "Support Vector Classifier" algorithm, achieving 73% accuracy with key input features like age, gender, blood pressure, and heart rate
- Developed an intuitive user interface for easy input of health information, providing users access to the predictive model

Simon Game [🔗](#)

- Coded an interactive Simon game web application, using DOM to capture user click and keypress events
- Implemented DOM-based animations for enhancing user's visual experience and sound effect for each button
- Engineered a JavaScript code to evaluate and compare user inputs with the color sequence generated by the game

EXPERIENCE

Breakthrough Twin Cities

Jun 2024 – Present

Teaching Fellow

Minneapolis, MN

- Developing an engaging 8th-grade science curriculum, including lesson plans and hands-on activities, to enhance students' understanding of key scientific concepts and prepare them for high school.
- Managing two classes of 10 students each, fostering a supportive and inclusive learning environment, and monitoring individual progress to ensure academic success and readiness for college.

Minerva University

Aug 2023 – Apr 2024

Admission Processor

San Francisco, CA

- Evaluated more than 300 submissions, including expression, writing, accomplishments, understanding, creativity, and integrity checks, as part of the comprehensive review process for student admission.

Resala Charity Organization

Feb 2021 – Jun 2022

Data Administrator

Sohag, Egypt

- Executed meticulous data cleaning and validation processes by matching the information in the donor's database with the data spreadsheet obtained from the blood donation campaigns
- Processed data for over 800 blood donors, dedicating an average of 5 hours per week, and was recognized as the best volunteer for three consecutive months

EDUCATION

Minerva University

Expected May 2026

Bachelor of Science in Computational Sciences (Software Engineering & Artificial Intelligence)

San Francisco, CA

- Admitted in a highly selective university (2% acceptance rate)
- Relevant Coursework: Logic and Statistics, Algorithms & Data Structures

SKILLS

Software Engineering & Programming Skills

HTML5, CSS3, Javascript, React, Typescript, Git, Github, API, Sass, Bootstrap, Python, Flask

Language Skills

Arabic (Native), English (Advanced)