

Osama Mikrani

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SUMMARY

Enthusiastic Software Engineer with a strong foundation in coding and software development. Proficient in Java, Python, and C, with experience in building efficient, scalable solutions and resolving complex debugging challenges. Brings persistence, analytical skills, and strong communication abilities to drive collaboration and deliver high-quality results.

TECHNICAL SKILLS

Programming Languages: Java, Python, C, SQL

Tools & Technologies: HTML, CSS, JavaScript, MongoDB, Bootstrap, React, Git&GitHub, Terminal, Tailwind

PROJECTS

Camouflaged Object Detection (COD)

Jan 2025

Deep Learning Project

Python, Transformer, OpenCV

- Developed an end-to-end system for generating descriptive camouflaged Object Detection
- Developed a State-of-the-Art (SOTA) Camouflaged Object Detection (COD) model (FEDER) using Learnable Wavelet Decomposition and Frequency Attention to extract subtle discriminative features.
- Implemented an auxiliary ODE-inspired Edge Reconstruction task with a Runge-Kutta solver to ensure highly accurate segmentation boundaries.

Multiple Disease Prediction

Aug 2023 – Dec 2024

AI-Powered Health Prediction.

Python

- The project focuses on Multiple Disease Prediction based on symptoms.
- Training data is used to train a model, and test data is used to evaluate its performance.
- The prediction.csv file likely contains a sample or result of predictions, but its formatting is suboptimal.

Full-Stack Airbnb Project

Aug 2025 – Oct 2025

Full-Stack Airbnb Project

- Developed a full-stack web application replicating the core functionalities of Airbnb, allowing users to search for accommodations, view detailed property listings, make bookings, and manage their own listings. Built using Node.js, Express.js, EJS, and MongoDB (Mongoose), the project implements secure user authentication and authorization, CRUD operations for property management, and a responsive UI for seamless user experience. This project demonstrates strong skills in backend development, RESTful APIs, database integration, and dynamic front-end rendering.

EXPERIENCE

24-Hour Hackathon – Spam Email Prediction Project

June 2022 – Oct 2024

DeepMind

CIT College, Karnataka

- Collaborated in a 24-hour hackathon to develop a machine learning model for spam email prediction.
- Applied data preprocessing, feature extraction, and classification techniques to achieve efficient spam detection.
- Gained teamwork, problem-solving, and rapid prototyping experience under time constraints.

EDUCATION

Channabasaveshwara Institute of Technology, Tumkur

Aug 2022 – May 2026

B.E. in Computer Science Engineering

CGPA: 8.2

CERTIFICATIONS

DSA (Java) Apna College: – Data structures, Algorithms, Problem-solving.

Full Stack Web Development Apna College: – Frontend, Backend, Databases.

KAGGLE: – Python Certification..