Saail Abbas

Aspiring Software Engineer

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2003-11-24

Profile

Motivated Software Engineering student eager to apply my skills in a real- world internship, learn fast, and contribute to impactful projects.

WORK EXPERIENCE

Teaching Assistant, *Lucky Star Academy* 08/2023 – 02/2024
Achievements/Tasks Rawalpindi, Pakistan

- Taught Mathematics and Science to 9th and 10th-grade students for 6 months. Assisted in lesson planning, student assessments, and academic support to enhance learning outcomes

EDUCATION

Software Engineering, *Capital University of science and technology* 09/2022 – Present
Islamabad Islamabad, Pakistan
7 Sem

FSC (Pre Engineering), *Punjab Group of Information Technology Rawalpindi* 08/2021 – 08/2022
Rawalpindi, Pakistan

Biology, *St.Mary's Cambridge School Rawalpindi* 04/2019 – 04/2021
Rawalpindi, Pakistan

SKILLS

- Data structures
- Front-end development
- Problem-solving skills
- C++
- SQL database management
- Github
- Data visualization tools
- Machine learning algorithms
- Python
- Responsive web design
- Team collaboration

PERSONAL PROJECTS

BioScout Islamabad – Al-Powered Biodiversity Web Platform

- Developed a web platform allowing users to upload flora/fauna images for Al-based identification.Integrated image recognition APIs and a Retrieval-Augmented Generation (RAG) Q&A system.Created a localized dataset for Islamabad and Margalla Hills.Submitted during a 2-hour hackathon aligned with UN SDG 13 & 15.

COVID-19 Data Visualization with Python

- Tech Stack: Python, Pandas, Matplotlib, Seaborn. Analyzed and visualized global COVID-19 data using charts and graphs. Applied data cleaning and real-world dataset handling techniques.GitHub/Colab Link: https://colab.research.google.com/github/saail1/COVID19-Data-Visualization/blob/main/covid_visualization.ipynb

Movie Recommendation System

- Tech Stack: Python, Flask, Pandas, Scikit-learn, HTML/CSS.Implemented content-based filtering using cosine similarity. Deployed with a user-friendly web interface.

Wall Ball Game (C++)

- Developed a console-based game applying object-oriented programming principles. Implemented basic collision logic and score tracking.

Finance Management Website

- Created a personal finance management tool for tracking daily expenses. Used HTML/CSS for frontend and SQL for backend data handling.

Information Security Project – SHA-1 Algorithm

- Implemented the SHA-1 hashing algorithm in Python. Demonstrated secure message authentication and integrity validation.

CERTIFICATES

- Hackathon Participant | Capital University (2025)
- Microsoft | Intro to Generative Al Basics
- Microsoft | Creative Prompting for Generative Al
- Islamabad Traffic Police | Friends of Police
- Microsoft | Creating Images with Generative Al