Khizar Umer

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SUMMARY

I'm a software engineer with experience in C, C++, javascript and React, passionate about developing scalable web applications and implementing efficient machine learning solutions. I've worked on a range of projects, from building an OCR system to developing real estate websites, with a strong focus on modern front-end libraries, data management, and AWS deployment. Always excited to explore new technologies and collaborate on impactful projects.

EXPERIENCE

Software Engineer

Kashf Foundation   June 2023 - June 2024, 1 C Shahrah Nazaria-e-Pakistan, Block K Phase 2 Johar Town, Lahore, Punjab

· Developed an Optical Character Recognition (OCR) system for Kashf Foundation, a Lahore-based organization. The project involved building a robust solution capable of recognizing Urdu text from scanned images and documents. Leveraging advanced machine learning techniques, such as DenseNet and Bidirectional LSTMs, I ensured accurate feature extraction and contextual decoding for the OCR. The solution significantly improved efficiency in text digitization and document processing for the foundation.

PROJECTS

Real Estate Website Development

Convutech UK · January 2024 -October 2024

· Developed a fully functional and responsive real estate website using **React.js** for the frontend, ensuring a smooth user experience across all devices. Designed intuitive UI/UX prototypes in Figma, focusing on an engaging and accessible user journey from property browsing to contacting agents.

ID Textify

Kashf foundation · June 2023 - June 2024

· Developed an Optical Character Recognition (OCR) system that accurately recognizes Urdu text from scanned images and documents achieving a 95 percent urdu accuracy. The system was built using machine learning techniques, incorporating **DenseNet** for feature extraction and Bidirectional LSTMs for sequential modeling, along with Connectionist Temporal Classification (CTC) decoding to handle variable-length sequenc

University Timetable Generator

Fast Nuces · February 2023 - April 2023

· I worked on the backend of a university timetable generator, focusing on **MongoDB** for data storage and clash management. Extracted data from complex Excel files and structured it efficiently in MongoDB to identify course clashes. The system's effectiveness in managing scheduling conflicts relied heavily on the optimized storage of data within the database."

EDUCATION

Ranked in the top 100 HEC Centralized examination

Bachelors in Computer Science

Fast Nuces · Faisal town, lahore · 2024

Cambridge O/A level in Natural Sciences

BeaconHouse College Campus · Main Boulevard, Gulberg · 2020 · 87 Percent Equivalency

· Bronze Medalist in O-level

SKILLS

Front End: javascript, React, HTML, CSS.

Data: Microsoft Sql Server, MongoDB.

Deployment: Windows Server, Linux, AWS.

Languages: C++, C, Python, Java, JavaScript, React.