Umair Sattar

ASSOCIATE SOFTWARE ENGINEER (Lahore, Pakistan)

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Education

Computer Science (BS) — **FAST-NUCES** — **2020 - 2024**

Personal Summary

As a Software Engineer, I possess expertise in building robust, scalable applications. My skill set spans both frontend and backend development, with a focus on delivering seamless user experiences and optimizing performance. I thrive in dynamic environments, quickly adapting to modern technologies and frameworks to drive innovation and meet business objectives.

Technical Skills

Tech-Languages: JavaScript, Python, C#, SQL, HTML5, C, C++

Tools & Technologies: React.js, Node.js, Git, Remix IDE, Netlify

Database: SQL, PostgreSQL, MongoDB, Firebase

Frameworks & Libraries: Ether.JS, Tailwind CSS, Web3.JS

Work Experience

Full Stack Developer Intern — **INTERNNCRAFT** — **July 2024 – Sep 2024**

- Gained hands-on experience in full-stack development. Successfully completed 2 comprehensive web (Design & development) projects using React, Node.js, Express, and MongoDB.
- Worked on integrating API endpoints that reduced latency in data retrieval, improving performance on key pages in projects.

Selected Projects

Blockchain-based auction marketplace for unique Items – RareFinds (Final Year Project)

- Rare Finds (WEB & Mobile APP) is designed to ease customers looking to buy or sell one-of-a-kind products.
- Sellers can list their unique items for auction, and buyers can openly bid against each other. Bidding will remain open for a specified duration, after which the item will be sold to the highest bidder.
- Payments are processed via blockchain technology, ensuring secure and transparent transactions.
- Developed using **React.js, React Native, Smart Contracts, MongoDB.**

University Management System- Database Final Project

- Developed a university management system using **Oracle and C#** to automate university operations, including result viewing, class scheduling, course enrollment, department-wise course display, and report generation.
- Designed and optimized the database schema to ensure efficient data storage and retrieval.
- Implemented a user-friendly interface in C# for seamless interaction and improved user experience.

Custom Transformer-Based LLM – Large Language Model

- Fine-tuned pre-trained models like BERT, GPT-2, and Llama for text summarization tasks, Optimized model training and performance using preprocessing, tokenization, overfitting prevention, and ROUGE score evaluation.
- Designed and implemented a custom Transformer-based model from scratch, incorporating innovative features such multi-head attention mechanisms and positional encoding.
- Developed using **Python, Hugging Face Transformers, PyTorch, TensorFlow.**

Cricbuzz – OOP Final Project

- This console-based application, developed using Object-Oriented Programming (OOP) principles, demonstrates a solid understanding of OOP concepts such as classes, objects, inheritance, and polymorphism.
- The application provides real time updates on cricket scores, match schedules, player statistics, and team rankings, emulating the core functionalities of the Cricbuzz platform.

Certificates & Courses

Git: Become an Expert in Git & GitHub — Udemy

CSS, JavaScript, and Python Complete Course — Udemy

API Penetrating Testing — Credly/APISEC University