

Hamza Siddiqui

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EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) Anticipated May 2024

Bachelor of Science in Computer Engineering (CGPA: 3.38 / 4.00)

Topi (Swabi), PK

- **Relevant Coursework:** Full Stack Development, DevOps, Deep Learning, Intro to AI, Operating Systems, Intro to Databases, Data Structures and Algorithms, Computer Organization, Object Oriented Programming

EXPERIENCE

Keystone Consulting

June 2023 – August 2023

Software Developer Intern

Remote (Islamabad, PK)

- Led the development of an advanced business intelligence visualization application leveraging Natural Language Processing techniques, enhancing data interpretability and decision-making processes.
- Employed Flask, Python, React.js, and Next.js; contributing to a seamless UI and efficient back-end functionality.
- Engineered the integration of LangChain and OpenAI technologies into the chatbot system; achieving a 70%+ accuracy in chatbot response and a 25% decrease in response time.

NETRONiX GIKI

April 2023 – Present

Lead Residential Network Administrator

Topi (Swabi), PK

- Managed GIK Institute's residential network comprising of 3500+ nodes, ensuring robust performance.
- Designed and conducted comprehensive training sessions and workshops on computer networking for students.
- Provide and maintain peer-to-peer file sharing and IPTV services for 3000+ residents of GIK Institute.

Mantula Solar

July 2022 – August 2022

Software Engineer Intern

Remote (Stellenbosch, SA)

- Collaborated with a team of 5 full-stack web developers to engineer Mantula Solar's user-friendly web application, utilizing React.js, Firebase, and Bootstrap.
- Designed and integrated a decision tree-based price estimator, along with connecting APIs to align with customer preferences, resulting in a 20% increase in user engagement and a 15% improvement in conversion rates.
- Leveraged various NPM packages, contributing to a sophisticated and seamless user experience, and documented the software development lifecycle, paving the way for future enhancements and maintenance.

PROJECTS

NLP-Powered Business Intelligence | Final Year Project | Next.js, Flask, Python, PostgreSQL, Firebase

- The project aims to simplify the process of business intelligence reporting for non-technical users by leveraging natural language processing techniques and incorporating open-source large language models.
- Developed a full-stack application that utilizes an LLM to interpret user queries, fetch required data, and generate data visualizations. The platform allows users to customize and save these charts to personalized dashboards.

H.E.L.I.X. IoT-Based ChatBot | Group Project | Python, Rasa, Flask, HTML, CSS

- Built an IoT-based Chatbot featuring voice and text input functionality, enabling users to control devices. Implemented a user-friendly app and implemented voice recognition for identification, achieving 78% accuracy.

Line and Light Following Robot | Group Project | C, Arduino

- Engineered a line-and-light following robot by programming an Arduino Uno with light sensors and motor controls. Achieved a 90% success rate in navigating a solid black line during test runs.

University Complaint Portal | Group Project | PHP, HTML, CSS, MySQL

- Built a website, enabling 2000+ university residents to lodge and track their complaints and feedback.

Console-based Text Editor | Individual Project | C, Linux

- Created a simple text editor for a Linux environment by employing Linux system calls in C.

TECHNICAL SKILLS

Languages: C, C++, Python, Bash, Matlab, JavaScript, TypeScript, PHP, HTML, CSS, SQL

Technologies: Flask, React.js, Next.js, React Native, Express.js, Node.js, Bootstrap, TailwindCSS

Databases: PostgreSQL, Oracle, MySQL, MongoDB, Firebase, Sanity

Tools: VS Code, Linux Command Line, Vim, Make, Git, GitHub, OpenSSH, AWS, Docker, Terraform