Hamza Siddiqui

Islamabad, PK

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EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)   Topi (Swabi), PK
Bachelor of Science in Computer Engineering | CGPA: 3.38/4.00   *Aug 2020 – May 2024 (Anticipated)*
Relevant Coursework: DevOps, Deep Learning, Intro to AI, Microprocessor Interfacing, Operating Systems, Intro to Databases, Data Structures and Algorithms, Computer Organization, Object Oriented Programming

WORK EXPERIENCE

Lead Residential Network Administrator   April 2023 – Present
NETRONiX   *Topi (Swabi), PK*

- Manage GIK Institute's residential network compromising 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.

Software Developer Intern   June 2023 – Aug 2023
Keystone Consulting   *Remote*

- 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.
- Integrated LangChain and OpenAI technologies, and authored multiple Python scripts to create a sophisticated chatbot interface, elevating user interaction and automating responses.

Software Engineer Intern   July 2022 – Aug 2022
Mantula Solar   *Remote – Stellenbosch, SA*

- Collaborated with a team of 5 full-stack web developers to engineer Mantula's web application, utilizing React.js and Firebase, enhancing the product's functionality and user interface.
- Developed and integrated a decision tree-based price estimator, along with connecting APIs to align with customer preferences, offering a tailored and engaging user experience.
- 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

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

- Developed an IoT-based Chatbot featuring voice and text input functionality for executing commands, enabling users to control devices. Designed a user-friendly interface and implemented voice recognition for user identification.

Line and Light Following Robot   Group Project | C, Arduino

- Developed 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

- Developed a web application enabling university residents to lodge and track their complaints and feedback.

TECHNICAL SKILLS

Languages	:	C, C++, Python, Bash, Matlab, JavaScript, PHP, HTML, CSS, SQL
Frameworks	:	Flask, React.js, Next.js, React Native, Express, Node.js, Bootstrap
Tools	:	VS Code, Linux Command Line, Make, Git, GitHub, OpenSSH, AWS, Docker, Terraform