SOHAIB KHAN

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EDUCATION

The University of Texas at Austin, Austin, TX
Bachelor of Science, Electrical and Computer Engineering, GPA 3.3

Relevant Coursework: Embedded Systems, Algorithms, Data Structures, Unit Testing, Data Science, Object-Oriented Programming

TECHNICAL SKILLS

- Proficient in LabVIEW and Python; Familiar with programming languages such as C, C++, and Java; Exposed to JavaScript and SQL
- Familiar with frameworks and version control systems such as React.js, Flask, PyTorch, Linux, Git, and GitHub

EXPERIENCE

NI Test and Measurement (National Instruments), Austin, TX   August 2022 – May 2024
Software Engineer

- Developed software for the Pulsed RF Measurements (PRFM) library using LabVIEW improving the production testing process of products such as Power Amplifiers (PAs) and Digital Transmit Receive Modules (D-TRMs) serving as components of radar systems using Electronically Scanned Arrays (ESAs).
- Tested APIs on the Pulse, Power Added Efficiency (PAE), and S-Parameter panels by writing unit tests using LabVIEW ensuring better functionality of the PRFM library used by customers like Aerospace/Defense companies while testing their products.
- Collaborated with senior software engineers using Agile framework to design and improve the PRFM library towards each annual release achieving goal of optimizing the testing process for Aerospace/Defense companies.

NASA Johnson Space Center, Houston, TX   October 2016 – December 2016
Software Engineering Intern

- Designed a new rover using insight on previous rover models such as Sojourner, Spirit, and Curiosity to better adapt towards hostile conditions on Mars.
- Implemented Object-Oriented programming principles and tested rover using Python to control its servo motors and light sensors ensuring better navigation and judgement while driving on the rocky surface.

PROJECTS

Hardware Purchase Website

- Implemented front-end components such as hardware check-in, hardware check-out, and the user sign-in area using React.js allowing users to easily interact with the website to purchase different types of hardware.
- Launched unit tests in React.js and Python to verify the correctness of the hardware and database sections ensuring better functionality of the website.

Plagiarism Catcher

- Designed application in C++ to show list of all pairs of files in directory sharing certain word sequences to detect plagiarism efficiently.
- Practiced Object-Oriented Programming (OOP) principles to create different classes for constructing hash table and analyzing word sequences to improve software maintainability.