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 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.