SHAHMIR MASOOD

Austin, TX | 512-998-2398 | shahmir@utexas.edu | LinkedIn

EDUCATION

The University of Texas at Austin, Austin, TX — August 2020 - Dec 2023
Bachelor of Science in Computer Science

Courses: Data Structures, Algorithms, Computer Architecture, Operating Systems, Audio & Speech Processing, Competitive Programming

SKILLS AND INTERESTS

Programming Skills: C/C++ (proficient), Java (proficient), C#, Linux programming and scripting, Python, B2B integration
Online Courses: C# Unity Game Development, Neural Networks and Deep Learning (Coursera), Linux Fundamentals (O'Reilly), C++ without Fear (O'Reilly),

EXPERIENCE

Texas Spacecraft Laboratory Seeker Mission - *The University of Texas, Austin, TX* — October 2021 - Present

- Team Member of the Seeker mission, which works with the NASA Johnson Space Craft Center to develop an isolated computer vision system based on a parent satellite's proximity and orientation in space
- Specializing on optimizing machine learning models for use in spacecraft pose estimation challenges
- Develop additional UI features and tools for training machine learning models through RavenML

Software Programming Internship - *Sofy.AI, Bellevue, WA (remote)* — May 2021 - August 2021

- Interned with Sofy.AI which delivers AI-powered solutions for automated Testing of Android and iOS applications
- Developed, published, and demonstrated several CI/CD integration packages for Sofy.AI customer use, including CircleCI Orb package (YAML), Visual Studio Appcenter (Bash), and custom plugins for Jenkins (Java and XML)
- Worked directly with customers to deliver live demos, address concerns, and implement feedback over the integrations

NASA L'Space Online Academy - *online* — January 2021 - May 2021

- Selected to attend a 12 week online interactive program over how to both effectively write and review concept proposals
- Collaborated with 10 others to design Spacepal, a software package that combines several NASA processes into a single mobile application for commercial and NASA use
- Learned how to properly write and critically evaluate NASA New Technology Report proposal documents

Computational Modeling and Materials Research Internship - *University of Texas, Austin, TX* — May 2019 - August 2019

- Researched with the University of Texas, College of Natural Sciences, Computational Materials Department
- Worked with UT undergraduate students to identify optimal atomic builds for redox reactions in Li-Air batteries
- Tested Pt (111) builds using Python-based EON software to model the evolution of atomic scale systems

LEADERSHIP

NASA Highschool Aerospace Scholars On-Site - *Delta Team Systems Manager* — October 2018 - July 2019

- Selected from hundreds of prospective students from a four-month course to attend Week 6 of the NASA HAS On-Site experience in Houston
- Chosen as Systems Manager to lead 11 selected Scholars on several design challenges at Johnson Space Center
- Designed and prototyped enhancements to Exploration Extravehicular Mobility Unit (xEMU) spacesuits

PROJECTS/CLUBS/SCORES

- **CircleCI Orb:** Allows CircleCI users to upload their builds to Sofy during their application testing CI/CD pipeline
- **Visual Studio App Center:** Allows App Center users to upload their builds to Sofy during their application testing pipeline
- Texas Blockchain Engineering group. General member learning how to program smart contracts in Solidity
- **The Tejas Club:** Member of the Tejas Club, the premier men's social organization at UT Austin, as of Spring 2021
- Exam Scores: ACT - 36, SAT II Math - 800