Smit Modi

SWE intern at NASA

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Aspiring Computer Science student currently pursuing internships within the Tech and Space Industry. 2018 and 2022 Software Programming NASA Intern and Community College Aerospace Scholar Alum. Enhancing my technical and soft skills while pursuing a degree with a projected graduation date of Winter 2022.

Willing to relocate: Anywhere

Work Experience

Software Engineer Intern
NASA (Johnson Space Center) - Remote
January 2022 to Present

● Working on migrating EDCC drawings to the new platform JEDII.
● Use Machine Learning/Artificial Intelligence tools to scan drawings and extract the required information and save that to Excel.
● Worked on improving the Python script which converts PNG drawings to PDF which then crops/saves only the part that is required.

Software Engineer Intern
NASA (Johnson Space Center) - Houston, TX
September 2018 to December 2018

• Worked with heart rate sensor monitors (Bluetooth) from Polar and a brain sensing headband Muse to extract the telemetry.
• Integrated with Universal Windows Platform, Android Studio as well as worked on setting up TCP and UDP server/client.
• Administered VR demonstrations for VIP guests that showcased Hybrid Reality potential and usefulness using a virtual simulation of the ISS.
• Integrated high end wearable technology to demonstrate military and astronaut training applications.

Software Engineer
NASA (Armstrong Flight Research Center) - Lancaster, CA
June 2018 to July 2018

● Engaged in a five week online course and received a perfect score on all the quizzes.
● Composed a report on the Evolvable Mars Campaign Study.
● Highlighted the two different methods of transportation and chose which one was better based on my opinion and facts provided in the study.
● Explained what a "capability driven approach" is, deciphered some ways in which the Martian environment could provide resources and their importance to current and future missions.
● Competed at Armstrong Flight Research Center in Edwards, California

● Collaborated with a team of 10 individuals, none of which I had previously met in order to build a fully functional rover and compete for a fictional NASA contract against three other teams.
● Also the winning team of Summer 2018
● Interacted with current NASA engineers, interns, mentors, and NASA employees in order to understand NASA's mission and their company values.

Education

Bachelor's in Computer Science
University of California - Riverside, CA
January 2019 to March 2022

Associate in Computer Science
Cerritos Community College - Norwalk, CA
January 2015 to March 2018

Skills

- Python

- C++

- Java

- HTML

- C#

- SQL

- Assembly Language (3+ years)
  Courses-
  Data Structures & Algorithm

- Software Construction

- Technical Writing

- Design & Architecture of
  Computer Science

- Automata & Formal Language

- Virtual Reality

- Data Analysis

- Embedded System
  Tools-
  Github

- Visual Studio

- Jupyter

- NetBeans

- Eclipse

- Putty

- Powershell

- Atmel Studio
  Expertise-

Unit testing

- Dynamic Programming

- FPGA

- Arduino

- Quality Assurance

- Agile

- DBMS
  Information Technology-
  Troubleshooting

- Windows

- Linux

- Remote & virtual connection

- Customer Service

- Routing concepts

- VPN & proxies

- System administration

- process managements

- Configuration

- Hashing

- Network security

- Data management & recovery

- Cryptology/Encryption

- Network Security

- Resource Monitoring

- Permissions.

- C/C++

- AWS

- User Interface (UI)

- Test Cases

- MySQL

- Google Docs

- Test automation

- Analysis skills

- Software testing

- Spring

Links

http://www.linkedin.com/in/smit-modi-6b0459112

Certifications and Licenses

Google IT Support Professional Development
Present

Technical Writing - Coursera
Present