



# Amaan USMANI

## CLOUD DEVELOPER

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### About Me

I am a senior (class of 2023) at Virginia Commonwealth University, Richmond, VA. I am majoring in Environmental Studies with a minor in Computer Science. I have a passion in environmental studies as well as the power of technology. I have been taking multiple courses in the computer science which made me further appreciate the possibilities that automation can bring to all of our facets including environment. I have been very excited with the computer science courses that I have taken, and I am looking for an opportunity to further enhance my knowledge of the power of automation at the industrial level.

### Experience

#### Teaching Assistant (Virginia CommonWealth University)

- August 2022 – Present
- Working as a Teaching Assistant for CMSC 254 [Introduction to problem solving] and CMSC 256[Data Structure and Object Programming].
- The courses teach students how to solve problems and implement solutions using Python and Java.
- Was selected by the professor based on my academic performance in prior programming classes, and based on other student's feedback to the professor on my help.
- Responsibilities include in class tutoring of students, as well as grading of assignments

### Relevant Courses

- Introduction to Programming Language - Java
- Data Structure & Object Programming – advanced Java
- Data Literacy (R/R-Studio)
- Intro to Discrete Structures
- Fundamentals of Software Engineering (with C programming and xfig)
- User Interface Design

#### Global Component Tech – Intern System Engineer

- June 2022 – August 2022
- Created Virtual Machines in Azure using terraform that contains Jupyterhub, Scala, Java, Python, PostgreSQL, and Spark with a private and public subnet ([link](#))
- Used user-data.sh to dynamically install and configure all the needed software on the virtual machines
- Made all the code available on GitHub with a clear and easy to understand ReadMe file for others to follow and reuse the code
- Automated the startup and shutdown process using Bash scripts.
- Parameterized a number of settings so that the virtual machines can be easily configured to fit any need.

### Links

- Azure Virtual Machine: ([link](#))
- Python Self Project: ([Sample WebApp Link](#))
- Azure Functions: ([link](#))