

ADITYA VIKRAM SINGH

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EDUCATION

University of Massachusetts Amherst

Expected May 2023

Bachelor of Science in Computer Science, College of Information & Computer Sciences

GPA: 4.00 • Chancellor's Award Scholarship, Dean's List Fall 2019

RELEVANT COURSEWORK

Introduction to Computation (Ongoing) • Programming Methodology (Ongoing) • Data Analysis in R (Ongoing) • Programming with Data Structures • Multivariate Calculus • Linear Algebra (Ongoing)

PROJECTS

"Valuto": Account Management System

Aug 2018 - Nov 2018

- Programmed the command-line interface in **C++**, for the creation and maintenance of financial statements.
- Co-authored a project report of the system and demonstrated the project in front of a visiting Russian delegation in high school.
- Worked in a team of 3 members, as the **lead programmer** and **presenter**.

"Ares": An Inflatable Habitation System

Oct 2017 - Jan 2018

- Created **2D & 3D CAD** depictions of inflatable habitats deployable in rough Lunar and Martian environments.
- Prepared the rationale for structural design choices and dimensional calculations and developed a proposal for pitching the project as a viable solution for space colonization.
- Worked in a team of 5 members, in the capacity of **technical lead** and **graphic designer**.

WORK EXPERIENCE & LEADERSHIP ROLES

Peer Tutor - University of Massachusetts Amherst

Jan 2020 - Present

- Held one-on-one tutoring sessions for introductory computer science courses in Java.
- Tutored students for Problem Solving with Computers and Programming with Data Structures.

President - Student Council, Delhi Public School R. K. Puram

Apr 2018 - Mar 2019

- Oversaw student discipline and represented the students' interests.
- Liaised between students, faculty, and administration, and supervised the student-run events.

Lead Designer - TEDxYouth@DPSRKPuram

Apr 2018 - Mar 2019

- Led the event's design initiative in creating banners, prospectus, ID cards, and certificates.
- Coordinated with other departments of the organizing committee.

Honorary Advisor - Aerospace Society, Delhi Public School R. K. Puram

Apr 2016 - Mar

2019

- Mentored junior teams for aerospace competitions, during 2018-19 academic year.
- Participated in various space settlement design competitions, as a **structural design engineer**.

SKILLS

Languages: Python • C++ • Java • HTML • CSS • JavaScript • R (Statistics) • SQL

Technologies: Git • Selenium • Bootstrap

Software: Blender • Adobe Illustrator • Adobe Photoshop • Adobe InDesign • Microsoft Office Suite

Tools: Eclipse • Visual Studio Code • RStudio • MySQL