

ADITYA VIKRAM SINGH

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EDUCATION

University of Massachusetts Amherst

Expected May 2023

College of Information & Computer Sciences

Bachelor of Science in Computer Science

GPA: 4.00 • Chancellor's Award Scholarship

RELEVANT COURSEWORK

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

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.
- 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.
- 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

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

Apr 2018 – Mar 2019

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

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

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**.

TEDxYouth@DPSRKPuram – **Lead Designer**

Apr 2018 – Mar 2019

- Led the design initiative in creating banners, prospectus, ID cards, and certificates for the 2018 event.
- Coordinated with other departments of the organizing committee.

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

HOBBIES & INTERESTS

Landscape and architectural photography • General fitness • Hiking