

ADITYA VIKRAM SINGH

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EDUCATION

University of Massachusetts Amherst Expected Graduation: 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 operations on 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 for 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 & Member – 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 • Tidyverse
Software: Blender • Adobe Illustrator • Adobe Photoshop • Adobe InDesign • Microsoft Office Suite
Tools: Eclipse • Visual Studio Code • RStudio • MySQL

HONORS & AWARDS

AP® Scholar with Distinction Award, The College Board 2019 • **Academic Gold Medal**, DPS R.K. Puram 2018 • **Extracurricular Gold Medal**, DPS R.K. Puram 2018 • **Winner**, 25th Annual International Space Settlement Design Competition 2018 • **First Prize**, NASA Ames Space Settlement Design Contest 2017 • **Second Prize**, NASA Ames Space Settlement Design Contest 2016