# Aryan Garg

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## Education

**Georgia Institute of Technology | Atlanta, GA** *Aug 2022 – May 2025*

- Bachelor of Science in Computer Science
- *Relevant Coursework:* Data Structures and Algorithms, Linear Algebra, Discrete Mathematics, Intro to Computing (Python), Object Oriented Programming (Java), Differential Calculus, Integral Calculus.
- GPA: 3.66

**R.A.N Public School | Uttarakhand, India** *April 2018 - June 2022*

- Student Body President (2021-22)

## Work Experiences

**Intern | LadderUp Group** *April 2021 – June 2021*

- Worked with the Wealth Management and Investment Banking Division.
- Learned and applied the fundamentals of Initial Public Offering (IPO), Leveraged Buyout (LBO), and Discounted Cashflow (DCF) Models.
- Grew a mock fund of 100k INR to 350k INR over the course of the internship.

**Technical Intern | KLA Group India** *Aug 2021 – Oct 2021*

- Worked with the team to develop an upgraded automation system for the packaging unit.
- Used the RSM (Response Surface Methodology) mathematical model to improve plant efficiency by 65%.
- Reduced Wastage by 40% by employing a Stochastic Mathematical Model.

## Projects

**Team Leader | Itihaas 2.0** *June – July 2021*

- Itihaas 2.0 (Hindi for "History Reloaded") is a 3D game made using Unity Engine during Toycathon, a Hackathon and Innovation Contest hosted by the Government of India with over 130,000 participants.
- Programmed using C++ and C#.
- Led a team of 5 people and finished in the top 0.1% of all participants nationally.
- Invited for a virtual meeting with the Prime Minister.

## Research

**Undergraduate Researcher | Aerospace Systems & Design Lab (ASDL)** *Jan – May 2023*

- Evaluated data from campus buildings, central plants, and other infrastructure.
- Helped out with data processing, analytics, and machine learning to better understand and inform the performance of campus energy (and water) systems.
- Used Python Based Data Analysis tools along with building algorithms using Pandas Library.

**Co-Author | Solar Energy Research Paper** *July – Sept 2021*

- Conducted performance analysis of a Solar PV array system under several fault conditions and examined the findings within the context of the system's DC side in MATLAB/SIMULINK.
- Published the paper in IJISRT (International Peer Reviewed Journal).

**Research Intern | DC Machines Lab** *Jan - March 2021*

- Research on “Low-Cost Home Automation by Raspberry Pi-4 using Android Based Mobile App” under G.B Pant University of Agriculture and Technology, India.
- Helped design a system that can remotely connect, monitor, and control multiple devices using Python Programming Language.

## Skills

**Programming:** Java, Python, C++ , C#, HTML, MatPlotLib, NumPy, Pandas
**Software:** Microsoft Office Suite, Adobe Creative Cloud, Adobe Photoshop, Google Suite
**Clubs:** The Agency (ML/AI), GreyHat (Cybersecurity), GT WebDev, GT Wreck Racing (FSAE), Consult Your Community
**Languages:** English (Fluent), Hindi (Fluent), Punjabi (Conversational)