Aryan Garg

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EDUCATION

Georgia Institute of Technology | Atlanta, GA *Expected Graduation: May 2025*

Bachelor of Science in Computer Science, GPA: 3.76 (Dean's List)

***Relevant Coursework**:* Computer Organization and Programming, Data Structures and Algorithms, Objects and Design, Linear Algebra, Discrete Math, Intro to Computing (Python), Object Oriented Programming (Java).

University of Oxford | Oxford, United Kingdom *May - Aug. 2023*

Summer Exchange Program, GPA: 4.0

WORK EXPERIENCES

College of Computing, Georgia Tech | Atlanta, GA *Aug. 2023 – Present*

Undergraduate Teaching Assistant - CS 2050 (Intro Discrete Math CS)

- Teaching Assistant for and responsible for leading a study group of 50 people.
- Responsible for holding weekly office hours and offering personal assistance to students along with grading homework, exams, and other assignments for over 100 students every week.

SocWeb Lab, GT College of Computing | Atlanta, GA *Aug. 2023 – Present*

Undergraduate Research Assistant

- Examining how machine learning and computational techniques may be applied to patient-contributed social media and other online data to more accurately estimate the real-time burden of suicide and self-directed violence nationally.
- Collaborating with clinical researchers at Northwell Health in New York, The Centers for Disease Control and Prevention (CDC), and over 60 college students nationally to inspect 10,000 unique data points.

Aerospace Systems & Design Lab, Georgia Tech | Atlanta, GA *Jan. – May 2023*

Undergraduate Research Assistant

- Implemented in-place building systems to track and collect data from campus buildings, central plants, and other infrastructure by employing a K-means model.
- Utilized Python Pandas library to clean data before applying random forest algorithms to identify and interpolate anomalies in the data along with creating ideal clusters of temperature data.
- Helped in the identification and fixing of over 50 malfunctioning sensors enabling more effective decision-making in the campus building system.

KLA Group India | Delhi, India *May – Aug. 2022*

Technical Intern

- Used the RSM (Response Surface Methodology) mathematical model to optimize plant processes and improve efficiency by 25%.
- Employed a Stochastic Mathematical Model to reduce wastage by 40% along with advanced Python algorithms for seamless integration of the RSM and Stochastic Mathematical Model into the automation framework.
- Developed real-time monitoring dashboards using Tableau to provide critical insights into process performance.

PROJECTS

Auxilium

- Collaborated on a low-cost home automation system, enabling remote connectivity, real-time monitoring, and seamless control of more than 5 devices.
- Employed Python to design the backend functionalities of Raspberry Pi-4, ensuring optimal device interaction and data processing.
- Designed a Kotlin-based mobile interface to communicate with the Raspberry Pi-4 along with leveraging MQTT protocol to ensure secure and low-latency data exchange.

Itihaas

- Itihaas (Hindi for "History Reloaded") helps elementary school students learn about various stages of the Indian struggle for Independence through an interactive, multilevel 3-D game.
- Led a team of 5 people and programmed using C++ and C# in Unity Engine.
- Finished in the top 0.1% of over 130,000 participants nationally and invited to meet the Prime Minister.

SKILLS

Programming: Java, Python, C++, C#, HTML, .NET Core, Node.js, Pandas, Kotlin, React, JavaScript, Mongo DB, NumPy
Software: Microsoft Office Suite, Adobe Creative Cloud, Adobe Photoshop, Google Suite