Rohan Varshney

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Education

Georgia Institute of Technology, Atlanta, GA *August 2017 - May 2020 (Expected)*
- BS in Computer Science (Modeling/Simulation & Intelligence Threads)
- GPA 3.83/4.0, Honors Program
- <u>Relevant Coursework</u>: Data Structures & Algorithms, Object-Oriented Programming, Linear Algebra, Differential Equations, Discrete Math, Programming with MATLAB, Objects & Design

Stanton College Preparatory School, Jacksonville, FL *May 2017*
- GPA 4.91/5.0 (Top 10), SAT 2300, ACT 35, 17 AP Exams
- National Merit Finalist, National AP Scholar, International Baccalaureate

Work Experience

Raytheon, Software Engineering Internship, Indianapolis, IN *Summer 2018*
- Created a C# application that allowed User Stories from the Team Foundation Server to be exported accordingly to PowerPoint, improving Sprint planning and Standup evaluation times facility-wide
- Part of the SKRI (Silent Knight Radar Integration) team of the V-22 Osprey aircraft project, aiding with multiple tools and supporting tasks (stream specification) that expedited each Sprint implementation

FIRST Robotics, Shop Technician & Invento, Jacksonville, FL *August 2013 – April 2017*
- Provided the mechanical input behind constructing an autonomous robot while simultaneously creating 3D models of its components using SolidWorks, providing 500+ manhours
- Spearheaded a focus on using CAD for testing purposes while creating a library of template parts that can easily be modified and extended, effectively cutting down design manhours for future projects

Research

Automated Algorithms Design - Vertically Integrated Projects, Atlanta, GA *January 2018 – April 2018*
- Designed machine learning, genetic, & hybrid algorithms to improve algorithm and optimization methods

Solar Decathlon - Vertically Integrated Projects, Atlanta, GA *August 2017 – December 2017*
- A multidisciplinary design project among collegiate teams to build solar-powered houses, incorporating IoT with electrical engineering and computer & materials science

Projects

Georgia Tech RoboJackets, RoboCup, Atlanta, GA *August 2017 – April 2018*
- Sustained a team of 6 mini autonomous robots with C++ to compete in SSL (Small Size League) soccer

Food Compass, Indy Civic Hackathon, Indianapolis, IN *June 2018*
- Led the backend efforts for documentation & database creation using Java & JS for a web application that provides a resource-oriented solution to the food insecurity problem that afflicts Marion County

Leadership

Astronaut Challenge, Team Founder, Cape Canaveral, FL *September 2015 – March 2017*
- Qualified two consecutive years to compete at the JFK Space Center, only 15 teams in Florida (Placed 2nd)
- Presentation, Engineering, and multiple Simulation Challenges judged by a panel of NASA officials

Marketing and Communications Committee, Atlanta, GA *August 2017 – December 2017*
- Responsible for GT Student Foundation's brand management, graphic design, and marketing techniques

Skills

Programming:	**Fluent:** Java, Python, C#; **Proficient:** C++, JavaScript, Basic, Lua, R; **Web**: HTML, CSS
MOOCs:	Machine Learning w/ Python (DataCamp), Machine Learning A-Z (Udemy), How GIT Works (Pluralsight), C# & C++ Fundamentals (Pluralsight)
Organizations:	NMSC Scholar Community, CSX Corporate Citizenship, Xtern (TechPoint), GT Ramblin' Raas, Data Science @ GT
Software:	GIT, Jupyter Notebooks, IntelliJ, GarageBand, Visual Studio
Interests:	Problem-Solving, Public Speaking, Music Production, Dance, Stand-Up Comedy