**Rohan Varshney**

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**Education**

**Georgia Institute of Technology,** Atlanta, GA

***Graduation May 2020***

* B.S. in Computer Science (Mod/Sim & Intelligence Concentrations) | GPA: 3.83
* Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Linear Algebra, Differential Equations, Discrete Math, Computing in MATLAB, Objects & Design
* Affiliations: GT Ramblin’ Raas, Data Science @ GT

**Stanton College Preparatory School,** Jacksonville, FL ***Graduation May 2017***

* International Baccalaureate, National Merit Finalist, National AP Scholar
* GPA 4.91/5.0, SAT 2300, ACT 35, 17 AP Exams

**Experience**

**Raytheon, Software Engineering Internship**, Indianapolis, IN

***May 2018 – August 2018***

* Leveraged WireShark and Java for supporting apps and stream specification tools that expedited team Sprint progress for SKRI (Silent Knight Radar Integration), part of the V-22 Osprey aircraft project
* Created a customizable C# application that allowed User Stories from the Team Foundation Server to be exported seamlessly to PowerPoint, improving Sprint planning and Standup evaluation times facility-wide

**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, contributing 500+ hours
* 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 efforts for future projects

**Projects**

**­­­­­­­­­­­Automated Algorithms Design, Vertically Integrated Projects**, Atlanta, GA ***January 2018 – April 2018***

* Utilized EMADE genetic programming along with Pareto optimization to create hybrid algorithms that improved existing project solutions (f.e. a model that uses news headlines to predict the effect on stock prices)

**­­­­­­­­­­­Solar Decathlon, Vertically Integrated Projects**, Atlanta, GA ***August 2017 – December 2017***

* Collaborated in a multidisciplinary design project to assist the company Hannah Solar in producing a consumer-friendly and cost-effective solar integration model that both our client and their patrons would use

**Georgia Tech RoboJackets, RoboCup**, Atlanta, GA

***August 2017 – April 2018***

* Constructed a team of 6 mini autonomous robots with C++ to compete in SSL (Small Size League) soccer
* Debugged existing play strategy algorithms to be more robust and adaptive to a dynamic environment

**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 delivered a resource-oriented solution to the food insecurity problem that afflicts Marion County

**Leadership**

**Astronaut Challenge, Team Co-Founder**, Cape Canaveral, FL

***September 2015 – March 2017***

* Directed the team’s preparation efforts for the NASA-sponsored aerospace competition (Placed 1st overall)
* Managed team charter and funding while in charge of maintaining the team’s studying & training timeline

**Marketing and Communications Committee**, Atlanta, GA ***August 2017 – December 2017***

* Responsible for GT Student Foundation’s brand management, graphic design, and social marketing techniques

**Skills**

**Programming:** Java, Python, C#, C++, JavaScript, MATLAB, HTML/CSS

**Software:** GIT, Jupyter Notebooks, IntelliJ, Visual Studio, Android Studio, Eclipse, Bootstrap, GarageBand

**MOOCs:** Machine Learning A-Z (Udemy), How GIT Works (Pluralsight), C# & C++ Fundamentals (Pluralsight)

**Interests:** Public Speaking, American football, Music Production & Mixing, Astrobiology, Indian folk dance