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) | CS GPA: 4.0/4.0
- <u>Relevant Coursework</u>: Data Structures & Algorithms, Object-Oriented Programming, Linear Algebra, Differential Equations, Discrete Math, Computing in MATLAB, Objects & Design
- <u>Affiliations</u>: 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