

Rohan Devraj

314- 540-3163 | rdevraj3@gatech.edu | rdevraj3105@gmail.com | www.linkedin.com/in/rohan-devraj | U.S. Citizen

Education

Georgia Institute of Technology | Atlanta, GA
Bachelor of Science in Industrial/Systems Engineering

December 2026 (expected)
GPA: 3.87/4.0

Skills & Relevant Coursework

Technical: Python (Pandas, NumPy, Pyomo – in progress), Excel, R (dplyr, ggplot), HTML/CSS, Java, Quarto

Coursework: Python, Linear Algebra, Multivariable Calculus, Probability, Chemistry, Physics

Languages: English (fluent), French (conversational), Tamil (conversational)

Experience

UnitedHealth Group at Carnegie Mellon University

June 2024 - August 2024

Data Science Research Intern (Bridges to Healthcare Technology)

- Selected as one of 18 individuals in the nation to participate in competitive research program with CMU and United Health Group on healthcare analytics.
- Utilized statistical learning models such as lasso regression in R on over 2 million healthcare outcomes across the United States to uncover relationships between juvenile healthcare outcomes and adult health-related practices using the National County Health Rankings Dataset.
- Conducted in-depth database analysis of over 9,800 birth records using R and k-means clustering to identify combinations of risk factors associated with maternal healthcare disparities, leading to insights for the creation of enhanced prenatal care programs and targeted interventions aimed at improving patient outcomes.

Georgia Tech Autonomous and Connected Transportation Laboratory

January 2024- May 2024

Undergraduate Researcher

- Use mathematical modeling and optimization tools with Gurobi and Python (NumPy, Pandas, Pyomo) to solve and develop sustainable travel solutions. Implement innovative data analytics strategies, leading to actionable insights for improving transportation systems.
- Collaborate with cross-functional teams to develop and program analytical models to predict the autonomous and connected transportation future.
- Models developed impact transportation equity, safety, mobility, and accessibility.

Washington University in St. Louis

June 2022 - August 2022

Research Intern

- Conducted lab-based research at WashU as part of the highly selective STARS program cohort.
- Utilized Python, Excel, X-ray diffractometer (XRD) techniques, and HPLC (high performance liquid chromatography) techniques to process and analyze experimental data.
- Wrote research paper and presented findings to a group of research advisors, receiving accolades for communication of complex scientific concepts and outstanding contributions.

Activities

180 Degrees Consulting Georgia Tech | *Junior Consultant*

2024 - present

- Collaboratively develop and implement an outreach strategy as well as conduct data analysis, to help pave the way for the non-profit MedShare to provide support to Charitable Health Clinics (CHCs) of the Fulton and Dekalb Counties.
- Generate detailed reports and presentations to communicate project findings and achievements.

Georgia Tech Undergraduate Consulting Club | *Member*

2024 - present

- Collaborate with a diverse team of undergraduate students to analyze real-world business cases, identify key issues, and develop strategic recommendations for clients.

Georgia Tech Venture Capital Club | *Research Analyst*

2023 - present

- Conduct due diligence and research on the cybersecurity sector and present to venture capitalists in the greater Atlanta area.

The Tower Undergraduate Research Journal | *Editorial Assistant*

2023 -present

- Contributed to the editorial process by reviewing, editing, and formatting research articles.
- Actively engaged in brainstorming and development sessions, contributing innovative ideas to enhance the journal's impact and reach.

Organizations

Georgia Tech Grand Challenges LLC | *Project Lead*

2023 – 2024

- ☐ Given funding for developing models and solutions for vehicular navigation in dangerous environments.
- ☐ Developed leadership, team-building, creative problem-solving, and analytical skills as part of a selective program for Georgia Tech students.