

Rohan Devraj

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EDUCATION

Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Industrial & Systems Engineering, Minor in Computer Science

Expected Dec. 2026

GPA: 3.87

EXPERIENCE

UnitedHealth Group - Optum at Carnegie Mellon University

Jun. 2024 – Jul. 2024

Data Science Research Intern | stat.cmu.edu/cmsac/sure/2024/showcase/

Pittsburgh, PA

- Selected as one of 18 individuals in the nation to participate in competitive research program with CMU and UnitedHealth Group (Optum) on healthcare analytics (SURE 2024 Bridges to Healthcare Technology)
- Used statistical learning models such as lasso regression and decision trees with cross-validation in R on healthcare outcomes across the United States to uncover relationships between juvenile healthcare outcomes and adult health-related practices on county-level data
- Conducted 7+ analyses of maternal healthcare disparities and used k-means clustering to identify distinct groups in healthcare access using over 9,800 birth records
- Presented to faculty at Carnegie Mellon and leaders at UnitedHealth Group

Georgia Tech Autonomous & Connected Transportation Laboratory

Jan. 2024 – May. 2024

Undergraduate Researcher

Atlanta, GA

- Used mathematical modeling in Python and optimization tools like Gurobi to develop sustainable travel solutions
- Formulated mathematical expressions to model accessibility equity, ensuring that opportunities such as jobs and education can be accessed equitably by travelers originating at different zones
- Gained insights into multi-objective traffic assignments and network modeling and collaboratively worked to form effective optimization solutions

Washington University in St. Louis

Jun. 2022 – Aug. 2022

Research Intern

St. Louis, MO

- Conducted lab-based research on earth science 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

CLUBS & ORGANIZATIONS

180 Degrees Consulting | Junior Consultant

2024 – present

- Collaboratively develop and implement an outreach strategy to help the non-profit organization 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 to client

Georgia Tech Venture Capital Club | Research Analyst

2023 – present

- Conduct research on the cybersecurity sector and present to venture capitalists in the Atlanta area

Georgia Tech Grand Challenges | Project Lead

2023 – 2024

- Received funding to develop models and proposed 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

The Tower Undergraduate Research Journal | Editorial Assistant

2023 – present

- Reviewed and edited research articles submitted to the journal
- Contributed innovative ideas such as a speaker series to enhance the journal's impact and reach

SKILLS & RELEVANT COURSEWORK

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

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

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