

Devanshu Rakesh Maniar

devanshu.r.maniar@vanderbilt.edu | (404) 901-7199 | <https://www.linkedin.com/in/devanshu-maniar/> | Decatur, GA

EDUCATION

Vanderbilt University | QuestBridge Scholar

Bachelor of Science (B.S.) in Mathematics; Certificate in Data Science

Nashville, TN

August 2022 - May 2026

WORK EXPERIENCE

The Robotics and Autonomous Systems Lab - Undergraduate Research Assistant

August 2023 - Present

- Work alongside graduate student Akshith Ullal as an undergraduate research assistant to develop software applications that enable collaborative interactions using augmented reality and mixed reality. This project is under the supervision of Dr. Nilanjan Sarkar.

Drinking Water Justice Lab - Undergraduate Research Assistant

March 2023 - Present

- Preprocess geospatial data and perform R programming to digitize the risk of unsafe drinking water across Tennessee's major cities.
- Digitize Nashville's water systems, service area boundaries, and pipe networks using the ArcMap and ArcGIS geospatial processing systems.
- Work alongside doctoral student Mariah Caballero and 5 other undergraduates as a shadow research intern for a consent - based siting project funded by the Department of Energy. This project is under the supervision of Dr. Yolanda McDonald.

Project V Solutions Consulting - Research Analyst

May 2023 - Present

- Consult with a home furnishings company called Homerilla in order to analyze their marketing strategy and provide organizational insights to fit the company's needs.
- Coordinate with Project V Solutions' analysts and marketing specialists to conduct a thorough SWOT analysis of Homerilla's competitors (i.e. analyzing their products, pricing, distribution channels, marketing strategies).
- Identify opportunities where Homerilla can obtain a competitive advantage in the curtain and home decor industry.

Vanderbilt University Campus Dining - Student Associate

January 2023 - May 2023

- Integrated team - building and career management skills by serving food to students and university affiliates, cleaned / unloaded dishes, and rearranged cleaned silverware.
- Exercised safety and sanitary standards upheld by the Nashville Health Department and the university's campus dining health codes.

EXTRACURRICULAR ACTIVITIES

Georgia Institute of Technology - SCMB Undergraduate Summer Workshop

July 2023 - August 2023

- Workshop: "Cell to Datum: How We Interpret Biological Structures Using Mathematics."
- Participated in a 5 day Summer workshop at Georgia Tech's Southeast Center of Mathematics and Biology that offered various talks ranging from computational and statistical techniques in RNA structures, machine learning using computational Chemistry, topological data analysis, and dimension reduction.

Vanderbilt Data Science Program - Active Member

August 2022 - Present

- Participate in programming workshops on the NumPy and Pandas libraries for Python, and attend meetings regarding data visualization using the Matplotlib and Seaborn libraries on Jupyter Notebook and PyCharm.

Vanderbilt Math Club - Active Member

August 2022 - Present

- Participate in weekly discussions and proof - writing lessons concentrated around a wide range of mathematical topics (i.e. Calculus, Differential Equations, Topology, etc).

HONORS

- The American Association of Teachers of French: Outstanding Senior Award (May 2022)
- Georgia State University: TRiO Upward Bound Scholar (December 2021)
- College Board AP Scholar Award (July 2021)
- QuestBridge College Prep Scholar (April 2021)

SKILLS

- **Mathematical & Technical Skills:** Arduino Programming, Autodesk Revit 2017, Calculus, IntelliJ IDEA, Java, Jupyter Notebook, Matplotlib Library, Microsoft Office (Word, Excel, PowerPoint, Outlook), NumPy Library, Pandas Library, PyCharm, Python, R, RStudio, Seaborn Library, Unified Modeling Language