

William Rodman

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EDUCATION

TULANE UNIVERSITY | SCHOOL OF SCIENCE AND ENGINEERING

New Orleans, LA

Bachelor of Science Majors: Computer Science, Mathematics Minor: Economics

August 2020 – May 2024

Computer Science GPA: 3.6/4.0 Overall GPA: 3.2/4.0

- Computer Science Department Honors Thesis Candidate
- Fall 2023 Algorithms Teaching Assistant
- Relevant Coursework: Probability Theory, Statistical Inference, Linear Models, Stochastic Processes, Algorithms, Machine Learning, Data Visualization, Data Science, Microeconomics, Macroeconomics, Game Theory, Financial Accounting

EXPERIENCE

PRICEWATERHOUSECOOPERS LLP

New York, NY

Cloud and Digital Engineering Intern

June 2023 – August 2023

- Analyzed insurance companies' customer data sources to create new customer onboarding key performance indicators.
- Conducted analysis by structuring data into Pandas DataFrames then visualizing key performance indicators using Matplotlib.
- Presented insurance company client project at the nationwide Cloud and Digital Intern conference in New York City.
- Organized in-person networking event for 50 New York City interns working in the Cloud and Digital consulting practice.

TULANE UNIVERSITY COMPUTER SCIENCE DEPARTMENT

New Orleans, LA

Research Assistant

May 2021 – August 2023

- Paid research assistant funded by a \$473k National Science Foundation grant focused on researching algorithms capable of visualizing large GPS trajectory and road network datasets.
- Collaborating with a team of researchers from Tulane University, Saint Louis University, and Michigan State University.
- Published two open-source libraries and papers that visualize the performance of geometric graph-matching algorithms when applied to road networks.

PRICEWATERHOUSECOOPERS LLP

Washington, DC

Consulting Solutions Intern

June 2022 – July 2022

- Attended consulting and leadership workshops during national internship training in Orlando, Florida.
- Used Alteryx, and Microsoft Excel to conduct PwC framework data analysis of the client's online crowdsourcing platform.
- Collaborated with a team of interns to create a final deliverable for the client consisting of a slide deck, performance report, and Power BI dashboard.

PROJECTS

UNDERGRADUATE HONORS THESIS

August 2023

- Observing the Traversal Distances accuracy when classifying geometric graphs using machine learning.
- Working alongside post-doc researchers from Tulane University and the Michigan State University to compile test data.

TRAVERSAL DISTANCE VISUALIZER

December 2022

- Solved problem of manually drawing Traversal Distance between a graph and curve by creating the first ever computer program to auto-render the Traversal Distance between a graph and curve.
- Authored, documented, and published program over four months with three National Science Foundation grant team members.

U.S. OIL SANCTION CASE STUDY

October 2022

- Researched domestic oil prices following the U.S. White Houses ban on Russian crude oil imports in May 2022.
- Determined a 92% correlation between the depletion of U.S. Strategic Petroleum Reserves and domestic crude oil acquisition costs proved the White House successful in controlling costs of domestic oil by July 2022.
- Used STATA to create linear regression and graph data from Department of Energy and Energy Information Administration.

SKILLS AND CERTIFICATIONS

Communication Skills: Leading Team Meetings, Articulating Technical Concepts, Delivering Engaging Presentations

Programming Languages: Python, SQL, R, JavaScript, Matplotlib, Pandas, NumPy, Scikit-learn

Software Tools: GitHub, Docker, Visual Studio Code, Microsoft Excel, STATA

Certifications: Microsoft Office Specialist: Excel Associate