William Rodman

wrodman@tulane.edu | +1 202-306-9345 | linkedin.com/in/willrodman | github.com/willcrodman

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: 3.1/4.0

- 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 $1.2M 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
START Consulting 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 Protonium Reserves and domestic crude oil acquisition costs proved the While 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, Django, Scikit-learn
Software Tools: GitHub, Docker, Microsoft Excel, STATA
Certifications: Microsoft Office Specialist: Excel Associate