

# Daniel Öman

dsoman24@gmail.com | (470) 553-5299 | Atlanta, GA  
dsoman24.github.io | github.com/dsoman24 | www.linkedin.com/in/daniel-s-oman

## Education

### GEORGIA INSTITUTE OF TECHNOLOGY

2021 – 2025 (*expected*)

B.S. Computer Science, concentrations in Intelligence and Theory | 4.0/4.0 GPA

### ATLANTA INTERNATIONAL SCHOOL

2017 – 2021

Valedictorian | 4.53/4.0 GPA | 45/45 points on International Baccalaureate exam, top 1% of global candidates awarded

## Experience

### GOOGLE

*Incoming Software Engineering STEP Intern*

*Starting May 2023*

### GEORGIA TECH COLLEGE OF COMPUTING

Atlanta, GA

*Undergraduate Teaching Assistant*

*August 2022 – Present*

- Collaborating with professor and other teaching assistants to teach Java object-oriented-programming concepts to 30 students during weekly recitations
- Grading exams and homework, writing homework assignments, and writing auto-graded unit tests in Java for 550 students
- Helping students with problem solving and code debugging during weekly office hour sessions

### ERMI

Atlanta, GA

*Engineering Intern*

*July – August 2021*

- Analyzed data and created decision trees from health insurance claims data from 1,000+ knee surgery patients using R
- Identified highest cost patients to target for non-surgical intervention

*Engineering Intern*

*July – August 2019*

- Analyzed data from a robot that diagnoses knee injuries
- Learned and used R to organize and plot datasets to assess and visualize the reliability and accuracy of the robot
- Analysis to be incorporated into research papers

### GEORGIA TECH RESEARCH INSTITUTE

Atlanta, GA

*Engineering Intern*

*June – July 2020*

- Worked in a team of 4 to develop an app that creates a Bluetooth mesh network for emergency communication
- Implemented routing algorithms in Python and Java and ran simulations to investigate network properties and stability

## Leadership and Involvement

### GEORGIA TECH FINANCIAL SERVICES AND INNOVATION LAB

Atlanta, GA

*Vertically Integrated Project Research Assistant*

*January 2023 – Present*

- Developing and applying natural language processing and machine learning models for financial markets under Dr. Sudheer Chava

### CONSULT YOUR COMMUNITY

Atlanta, GA

*Business Analyst*

*August – December 2022*

- Conducted market research for a local sauce company to solidify the client's target audience and revamp social media strategy
- Aggregated and plotted 10k datapoints of consumer data to determine best product pairings for the next sauce product launch

## Example Projects

*Ruter-Sju Card Game Bot and Monte Carlo Simulation (Personal Project)*

*December 2021 – November 2022*

- Designed and implemented algorithms in Python to play card game Ruter-Sju to investigate best game strategy
- Built a Monte Carlo simulation with 20k+ games and used Pandas and PyPlot libraries to analyze and visualize game data

*International Soccer Analytics (GA Tech CS 2316 Final Project)*

*January – April 2022*

- Analyzed what makes a professional soccer team successful across the top five European leagues
- Web-scraped and aggregated over 190k datapoints from websites and databases and created diverse visualizations in Python

*Mathematics Library (Personal Project)*

*August – December 2021*

- Implemented many mathematics algorithms in Python from scratch to solve tedious computational problems
- Algorithms include converting a matrix to reduced row echelon form, inverting a matrix, decimal-fraction converter walking the Stern-Brocot tree to a given error, polynomial multiplication, and various numerical integration methods

## Skills

**Technologies:** Python, Java, MySQL, R. Experience with Python libraries Pandas, NumPy, Matplotlib, Beautiful Soup

**Languages:** Fluent in Spanish, Swedish, English

**Affiliations:** Delta Chi Fraternity (Scholarship Chair), Society of Hispanic Professional Engineers, Consult Your Community