

# ANIRUDH GANESH

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## EDUCATION

University of Minnesota – College of Science & Engineering

Minneapolis, MN

**B.S., *Summa Cum Laude*, Computer Science; Management Minor**

Cumulative GPA: 3.94, Technical GPA: 3.94

Honors: Presidential & National Scholarship (\$13,000/year) | Dean's List (2021- 2024)

Activities: Alpha Kappa Psi Business Fraternity (DEI Chair), AI Climate Group, Blue Sapphire Consulting

## WORK EXPERIENCE

**Boston Scientific**

*Data Engineer 1*

*Co-Op*

Maple Grove, MN

September 2024 – Present

September 2023 – August 2024

- Migrated *Hermes* Scrap Notification System from Python to .NET, transferring 200 jobs, rewriting 60 queries in PostgreSQL, and modifying database architecture to support integration with Tableau and SSRS reports.
- Leveraged DataDog to test, validate, and reduce latency on *Hermes* AWS microservice.
- Led meetings with Business Unit Representatives to develop and retool reports in accordance with needs and limitations.

**Boston Scientific**

*Data Operations Intern*

Maple Grove, MN

June 2023 – August 2023

- Refactored 12 reports to pull from PostgreSQL Datalake, adding new features, filters, and visuals to enhance usability.
- Wrote Python script to parse Excel files and insert information for 400+ machines into configuration database.
- Optimized 16 PostgreSQL Queries to efficiently track scrap, reducing AWS processing time by 1+ minute per query.

**CTS Corporation**

*Data Analytics Intern*

Lisle, IL

June 2022 – August 2022

- Streamlined analysis by creating Tableau dashboards for key metrics, resulting in a quarterly time savings of 75-100 hours.
- Developed a web app in HTML and PHP for efficient data entry and updates to company SQL table.
- Produced C++ script to efficiently validate information for 200 SAP RICEFW documents.

**University of Minnesota Department of Computer Science**

*Teaching Assistant for Introduction to Data Structures and Algorithms*

Minneapolis, MN

August 2022 – May 2023

## PROJECTS

**Stock Option Scanner**

*Key Technologies: Python (Pandas, Matplotlib, Numpy), MySQL*

June 2024 – September 2024

- Developed a program that scans through 2000+ tickers to find stocks with the highest expected value for option sellers based on the difference between market Implied Volatility and Realized Volatility (i.e Variance Risk Premium).
- Parsed implied volatility data from *Dolt*, and realized volatility data from *Yahoo! Finance*, calculating key metrics like 10-day and 4-year Average Variance Risk Premium, VRP Win Rate, and Implied Volatility Percentile Rank.
- Leveraged *Matplotlib* to graph VRP over time, clearly illustrating periods of profit and loss for high-EV stocks.

**UMN Major Map Creator**

*Key Technologies: JavaScript, HTML, Python, BeautifulSoup API*

September 2021 – November 2021

- Created a program that parses data from over 300 University of Minnesota courses to automatically generate "Major Maps" that visualize the relationship between classes through prerequisites.
- Utilized Python and the *BeautifulSoup* API to write a recursive function that parses Course Catalog data.
- Wrote a custom algorithm to optimize course placement on major maps, resulting in easy-to-follow visualizations.

**PocketPantry, Food Waste & Management App**

*Key Technologies: Swift, XCode, JSON*

July 2020 – September 2020

- Developed an iPhone app that helps users reduce food waste and expenses by tracking expiration dates, providing information on nearby food banks, and categorizing purchases.
- Acquired skills in Swift/XCode, database management, API usage, JSON, and data structures through self-study.
- Achieved significant success on the App Store, with over 250 downloads and 3,000 impressions.

## SKILLS & INTERESTS

**Languages:** C, C++, Python, Java, Swift | **SQL,** PostgreSQL, MySQL | **HTML5,** CSS, PHP, Javascript

**Tools/Frameworks:** Tableau, PowerBI, SSRS, DataGrip, Excel | Git, Github | AWS, Docker | Unix/Linux | LaTeX

**Interests:** Stand-Up Comedy | Stock Trading | Chess | Poker | Sports Analytics | Bouldering | Boy Scouts (Eagle Scout)