# Jorden Monroe

Boca Raton, FL | (361) 585-9305 | Jorden_monroe@yahoo.com
www.linkedin.com/in/jorden-monroe | GitHub: https://github.com/monroe2193

## EDUCATION

**Florida Atlantic University | Charles Schmidt College of Science**                                      **Boca Raton, FL**
*Bachelor of Science in Mathematics | GPA:3.8 | Magna Cum Laude*                                               *May 2023*

- **Relevant Coursework:** Computational math in Python, Programming, Differential Equations for Engineers, Calculus 2 & Calculus 3, Vector Calculus, Matrix Theory, Discrete mathematics, Advanced Mathematics, Applied Statistics, Complex Analysis, Modern Analysis, Mathematical Problem Solving, Probability and Statistics, Linear Algebra, Probability and Statistics for Engineers
- **Certifications:** **Using Databases with Python:** *University of Michigan/Coursera* | **Using Python to Access Web Data:** *University of Michigan/Coursera* | **Python Data Structures:** *University of Michigan/Coursera* | **Getting Started with Python:** *University of Michigan/Coursera* | **Capstone: Retrieving, Processing, and Visualizing Data:** *University of Michigan/Coursera* | **Data, Data, Everywhere**: *Google* | **Ask Questions to Make Data Driven Decisions:** *Google* | **Data Analytics (in progress):** *Google* | **Back-end Developer (in progress):** *Meta* | **Programming in Python:** *Meta*

## TECHNICAL SKILLS

- **Languages:** Python, SQL, R, MATLAB
- **Web:** HTML, CSS, JavaScript
- **Software:** Excel, Google Sheets, Pycharm, Minitab, Tableau, Visual Studio, Git, Github, SQLite3
- **Soft Skills:**

## ACADEMIC PROJECTS:

**Python Capstone** (*Python, Spring of 2023*)

- Implemented a simple Google PageRank algorithm and conducted spidering exercises to practice content retrieval.
- Built a suite of Python applications for data retrieval, processing, and visualization, including web scraping, parsing, and accessing data through web APIs.

**Using Relational Databases for Data Mining** (*Python, Fall of 2022*)

- Employed Python to store web data in various formats (HTML, XML, and JSON) in relational databases, and executed SQL queries and managed databases using the SQLite3 database browser.

**Data Optimization Project Series** (*Computational Math in Python, Fall of 2022*)

- Designed and developed data optimization applications utilizing Newton's method, bisection, and neural network training techniques in Python.
- Created a polynomial regression application in Python, and generated a comprehensive regression analysis project report to communicate findings.

## PERSONAL PROJECTS:

**Portfolio Website** (*March 2023*)

- Designed and developed a fully responsive portfolio website utilizing HTML, CSS, and JavaScript to create a dynamic user interface and interactive user experience.
- Employed keyframes animations within media queries to ensure optimal performance and a seamless user experience across devices.
- Employed responsive design principles, ensuring the website is accessible on various devices and screen sizes, and maintained cross-browser compatibility for maximum reach.
- Demonstrated proficiency in front-end web development, leveraging advanced skills in HTML, CSS, and JavaScript to deliver a visually appealing, functional, and maintainable web product.
- Developed clean, organized, and well-documented code, employing best practices for optimization, maintainability, and scalability.
- Tools used: *Github*, *HTML, CSS, JavaScript, Visual Studios*

**Insurance Claims Analysis and Predictive Modeling** (*Jan 2023*)

- Examined the data of a health insurance firm to anticipate future insurance claims and detect factors that contribute to higher medical expenses.
- Created a precise cost projection and forecasted the total claim amount paid by the insurance company.
- Using statistical methods to identify trends and patterns in the data through data manipulation and analysis with python.
- Constructed a model for each of the four regions where the policyholders of the company reside.
- Tools used: *Python, pandas, matplotlib, numpy, seaborn, skylearn, plotly, Excel*

## EXPERIENCE

**5+ years of unrelated work experience:** Hospitality, Customer Service, Delivery. (*Provided at request*)