

# Christian Monsalve

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## EDUCATION

### Rutgers University | New Brunswick, NJ

*Bachelors of Science (B.S) in Computer Science, Minor in Math*

**Relevant Coursework:** Introduction to Computer Science, Data Structures, Design and Analysis of Algorithms, Computer Architecture, Principles of Programming Languages, Software Methodology, Compilers, Introduction to Data Science

**Expected Graduation:** May 2026

## TECHNICAL SKILLS

**Programming Languages:** Python, Javascript, Java, C

**Libraries & Frameworks:** Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn

**Web Development:** React, Vite, HTML5, CSS3

**Tools & Technologies:** Git, Github, Jupyter Notebook

## EXPERIENCE

### Daniel H. Cook Associates | Data Processor

February 2021 - Present

- Specialize in efficiently handling dental insurance claims ensuring accuracy and compliance with policy guidelines.
- Utilized Excel and technologies such as Perfect Claim and Meditrac on a daily basis in order to structure large datasets.
- Manage high volumes of claims while maintaining a strong attention to detail.

### Daniel H. Cook Associates | IT Intern

September 2024 - December 2024

- Performed data preprocessing with libraries like NumPy and pandas to handle memory-intensive files efficiently.
- Utilized SQL Server Management Studio (SSMS) to write, optimize, and execute SQL queries for data retrieval, updates, and reporting.
- Resolved technical issues related to file transfer automation and optimized existing scripts to improve runtime and reliability.
- Automated repetitive file management tasks using PowerShell scripts, streamlining processes and reducing manual workload by 20%.
- Implemented solutions for parsing and manipulating large datasets using PowerShell.

## PROJECTS

### Twitter Data Analysis (Election Data)

Dec 2024

- Collected and processed tweets using the Tweepy API to study sentiment and topic trends during the 2016 U.S. Presidential Election.
- Cleaned and prepared large datasets by removing noise, normalizing text, and handling missing values using Pandas and regular expressions.
- Applied NLP tools, including NLTK and VADER, to classify emotional tones and identify key patterns in public discourse.
- Created data visualizations with Matplotlib and Seaborn to present sentiment trends and enhance interpretability.

### Full Stack Menu App

July 2022 - August 2022

- Developed a full-stack web app using Python, Flask, and PostgreSQL to manage restaurants and menu items with full CRUD functionality.
- Created a dynamic user interface using HTML, CSS, and Bootstrap.
- Used SQLAlchemy for database management, simplifying complex queries and transactions.

## EXTRACURRICULARS

### Undergraduate Student Alliance of Computer Scientists (USACS)

September 2023 - Present

- Participated in organized code jams and paired programming sessions to foster collaboration and problem-solving skills.
- Participated in LinkedIn, resume, and interview workshops to enhance professional development and career readiness for the corporate environment.

### Intramural Volleyball

- Participated in team-based sports, developing teamwork, communication, and leadership skills while maintaining a balanced college experience.