

# PAUL PIOTROWSKI

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## EDUCATION

### Bachelor of Science in Computer Science

May 2025 - August 2027

Florida International University (FIU); Miami, Florida

- Relevant Course work: Java, C++, Calculus, Object Oriented Programming, Discrete Structures, Statistics, Data Structures
- GPA: 3.67

## WORK EXPERIENCE

### Stride Rent a Car | Miami, Florida

September 2022 - Present

Sales Supervisor

- Lead and mentored a team of 6 sales associates, providing ongoing coaching and training on company procedures and advanced sales techniques to foster a high performance culture.
- Spearheaded a customer feedback initiative, analyzing qualitative data to inform strategic process improvements and elevate customer satisfaction scores from 40% to 75% within two quarters.
- Designed and automated weekly performance reports using advanced Excel functions (VLOOKUP, Pivot Tables, Power Queries) to track team KPIs, reducing manual reporting time by 6 hours per week.

## SKILLS

*Programming:* Experience in Python (Intermediate), Java (Intermediate), C++ (Beginner), SQL(Beginner), HTML (Beginner), CSS (Beginner), JavaScript (Beginner)

*Tools:* Git, GitHub, MySQL, Microsoft Excel, Adobe Creative Cloud (Acrobat, Photoshop), Selenium, Power Query

*Technical & Analytical Skills:* Data Cleaning & Preparation, Spreadsheets, Data Analysis

*Leadership Skills:* Conflict Resolution, Effective Onboarding, Team Mentorship, Decision Making

## PROJECTS

### GradTrack AI Agent | Miami, Florida

November 2025

- Developed an AI-powered web application to help students explore, plan, and visualize extensive academic pathways and transfer options using real course and university data.
- Designed robust TypeScript/React frontend with modular service-based AI integration and API key management.
- **Technologies:** TypeScript, React, Google Gemini API (Function Calling, Search Grounding), Tailwind CSS.

### Senior Helper | Miami, Florida

September 2025

- Led a 3-person team in a 36-hour hackathon to engineer a full-stack, conversational AI agent provides seniors with daily assistance and an emergency alert system (<https://seniorhelper.netlify.app/>).
- Architected a Python Flask backend with a Google Gemini agent, leveraging function calling to autonomously reason and execute real-world tasks via integrated APIs (Twilio, OpenWeatherMap).
- **Technologies:** Python, Flask, Google Gemini, REST API, Twilio, JavaScript, HTML/CSS, Render, Netlify, Git.

### Puzzle Solver | Miami, Florida

August 2025

- Developed a Java application to solve puzzles (e.g., "SEND + MORE = MONEY") by assigning unique digits to letters.
- Created a recursive backtracking algorithm to efficiently explore possible solutions and prune invalid branches, demonstrating strong algorithmic problem-solving skills.
- **Technologies :** Used Java, Data Structures (ArrayList, Arrays), Recursion, Backtracking Algorithms.

### Data Processing & Validation Utility Library | Miami, Florida

August 2025

- Built a reusable Java utility class to streamline data handling, featuring robust methods for input validation, file I/O, and statistical calculations.
- Wrote methods for array manipulation and sorting, displaying understanding of core data structures and algorithms.
- **Technologies:** Java, Object-Oriented Programming (OOP), Data Structures, File I/O.