

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: 3.80
- Clubs & Societies: INIT, Google Developer Group, AAVE

WORK EXPERIENCE

Stride Rent a Car | Miami, Florida **September 2022 - Present**

Sales Supervisor & Technical Operations Lead

- Designed and deployed a fleet tracking dashboard that integrates with our third-party rental management API. This solution automated data retrieval for 200+ vehicles, replacing manual lookups and allowing the sales team to instantly view live inventory status.
- 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.
- Engineered automated reporting workflows using advanced Excel functions (Power Query, VLOOKUP, Pivot Tables) to track team KPIs, reducing manual reporting time by 6 hours per week.

SKILLS

Programming: Experience in Python, Java , C++ SQL, HTML, CSS, JavaScript, TypeScript

Tools: Git, GitHub, MySQL, Microsoft Excel, Power Query, Bash, Linux/Unix, Vercel, RESTful APIs

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

Leadership Skills: Conflict Resolution, Effective Onboarding, Team Mentorship, Decision Making, Agile/Scrum

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.