

SHANE MCCARTHY

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PROFESSIONAL SUMMARY

Applied Data Science graduate student (M.S., expected December 2027) and software engineer seeking a **Summer 2027 Data Science Internship**. Skilled in **Python, SQL, R, machine learning, statistical modeling, and data munging**, with full-stack development experience. Background in **sports data analytics** and **business analytics**, including hands-on use of baseball performance technology as a collegiate player and coach.

TECHNICAL SKILLS

Languages: Python, SQL, R, JavaScript, C, C++

Data Science & Analytics: Statistical Modeling, Machine Learning, Exploratory Data Analysis, Data Visualization, Data Munging (Data Wrangling), Sports Data Analytics, Business Analytics, AI Prompting

Databases & Cloud: PostgreSQL, SQL, Relational Databases, REST APIs, AWS

Software Development: Full-Stack Development, PERN Stack, Flask, Node.js, Express, React, Data Structures & Algorithms, Jasmine (Unit Testing), Git/GitHub, VSCode, RStudio

Tools & Business: Excel, Microsoft Office, Accounting, Finance, Transaction Processing

Baseball Technology: TrackMan, Rapsodo, Blast Motion, Synergy

EDUCATION

M.S., Applied Data Science — New College of Florida, Sarasota, FL | Expected December 2027

- Fortune Top 10 Master's in Data Science program; cohort-based, project-driven team learning in R and Python
- Coursework: Exploratory Data Analysis, Applied Machine Learning, Data Visualization, Databases, Statistics
- Graduate Assistant Baseball Coach (NAIA); Pre-Law Society, Pre-Health Society, Sailing Club

B.S., Sports Business and Management, Minor in Finance — Florida Southern College | 2018–2020; 2025–2026

- GPA: 3.7 | NCAA DII Baseball Student-Athlete | President, Sigma Beta Mu (Sports Business Management Club)

Software Engineering Certification — University of South Florida (Springboard) | 2024–2025

- 800-hour, mentor-led program: front-end, back-end, databases, data structures & algorithms (Python, Flask, JavaScript, Node.js, Express, React, PostgreSQL, SQL, R, AWS, GitHub); mentored 1:1 by a cloud services developer

A.S., Business — Bryant & Stratton College, Virginia Beach, VA | 2020–2022

- NJCAA Baseball Student-Athlete

PROJECTS

Expense Tracker & Budgeting Web Application — Software Engineering Certification | 2025

- Built a full-stack web app from scratch with secure user login and a RESTful API backed by a PostgreSQL database, letting users track and manage expenses online
- Technologies: PERN stack (PostgreSQL, Express, React, Node.js), JavaScript, SQL, REST APIs, Jasmine, GitHub

ShellHacks Hackathon — Florida International University | Fall 2026 (upcoming)

- Collaborating with a team to design and build a working prototype under a strict time limit

EXPERIENCE

Graduate Assistant Baseball Coach — New College of Florida (NAIA) | 2026–Present

- Use TrackMan, Rapsodo, Blast Motion, and Synergy data to give players objective, data-informed feedback and guide their development

Athletics Intern, Operations & Communications — Florida Southern College (NCAA DII) | 2025–2026

- Supported game-day operations and athletics communications; Event Planner, Lambda Chi Alpha; Intramural Sports Chair & Official

Poker Dealer — Hard Rock Casino Tampa, FL | 2022–2024

- Managed low- and high-stakes games with speed and accuracy, applying probability, pot math, and cash transactions under pressure