

SYDNEY PACHECO

54 Marc Dr. Howell, NJ, USA

[Github](#) | [Linkedin](#) | [Portfolio-Website](#)
(732) 963-7415 | sgpacheco5@gmail.com

Technical Skills

Languages: JavaScript, Python, Java, SQL
Web: React.js, Node.js, Express.js, HTML5, CSS, TailwindCSS
Database/Tools: MySQL, MongoDB Atlas, Git/GitHub
Methodologies: Agile, RESTful APIs
Data analysis: Excel, Pandas, Matplotlib, Seaborn, Scikit-Learn

Education

Rutgers University , New Brunswick, NJ <i>September 2023 – August 2025</i> <u>Relevant Courses:</u> Computer Architecture, Algorithms, Data Management, Internet Technology, Data Science, Discrete Structures, Linear Algebra, Linear Optimization, Numerical Analysis and Computing, Programming Language Principles	Bachelor of Science in Computer Science <i>GPA: 3.39</i>
Brookdale Community College , Lincroft, NJ <i>September 2021 – August 2023</i> <u>Relevant Courses:</u> Data Structures, Systems Analysis and Design, Database Concepts, Computer Logic & Design, Programming I & II, Calculus II, Statistics, Macroeconomics, Public Speaking	Associate of Arts in Computer Science

Projects

Art E-commerce Website (Full Stack) [Website Link](#) | [Demo Video](#) | [Github Repository](#)
Tech Stack: JavaScript, React.js, Node.js, Express.js, MongoDB, HTML5, TailwindCSS
Developed a full-stack e-commerce website prototype for art sales, featuring a RESTful API with secure JWT authentication and Redis-backed refresh/access tokens. Integrated Stripe for payment processing. Deployed using Render.

Flight Reservation System (Database fundamentals) [Github Repository](#)
Tech Stack: Java Servlets with Apache Tomcat and JDBC, HTML, CSS, MySQL, Github
Collaboratively developed a flight management application for user-friendly data handling. Used a MySQL relational database to manage the data and implemented distinct functionalities for Customers, Customer Representatives, and Administrators.

Cooking Simulator (Hackathon) [Demo Link](#) | [Github Repository](#)
Tech Stack: C#, Unity Game Engine, Github
Used Unity, C#, and Github to collaboratively develop a cooking simulation prototype during the TCNJ 2025 Hackathon, which we demoed to a live audience.

Self-Care Recommendation Model (Data analysis/ Predictive Modeling) [Github Repository](#)
Tech Stack: Python, Pandas, Matplotlib, Seaborn, Sci-kit Learn, Numpy
Collected, cleaned, and analyzed crowd-sourced data using EDA techniques. Trained and evaluated multivariate machine learning models in Python to predict self-care activities for specific mood levels, energy levels, and times of day. Reported findings in a LaTeX document.

Professional Experience

AWF Presales Software Engineer Educational Internship	November 2025 - Current
Laboratory Robotics Interest Group Digital Transformation Lead (Volunteer)	October 2025 - Current
Sales Associate, Sketchers, Tinton Falls, NJ	June 2025 – Current
Retail Associate, Michaels, Howell, NJ	May 2024 – December 2024

Awards

NJSTARS I & II: Scholarships that recognize academic excellence in high school and community college