

SYDNEY PACHECO

54 Marc Dr. Howell, NJ, USA

[Github](#) | [Linkedin](#) | [Portfolio-Website](#)

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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

Bachelor of Science in Computer Science

September 2023 – August 2025

GPA: 3.39

Relevant Courses: Computer Architecture, Algorithms, Data Management, Internet Technology, Data Science, Discrete Structures, Linear Algebra, Linear Optimization, Numerical Analysis and Computing, Programming Language Principles

Brookdale Community College, Lincroft, NJ

Associate of Arts in Computer Science

September 2021 – August 2023

Relevant Courses: Data Structures, Systems Analysis and Design, Database Concepts, Computer Logic & Design, Programming I & II, Calculus II, Statistics, Macroeconomics, Public Speaking

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