

SYDNEY PACHECO

Howell, NJ, USA

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

Skills

Languages/ Tools: Java, Python, JavaScript, SQL, MySQL, PostgreSQL, MongoDB, GitHub, Docker

Web: React.js, Node.js, Express.js, HTML5, CSS, TailwindCSS

Data analysis & Visualization: Excel, Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn

Soft Skills: Agile, Stakeholder Communication, Requirements Gathering, Exploratory Data Analysis, Database Design

Education

Rutgers University, New Brunswick, NJ

Bachelor of Science in Computer Science

September 2023 – August 2025

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

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.

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. Trained and evaluated multivariate machine learning models in Python to predict self-care activities for specific mood levels, energy levels, and day times. Reported findings.

Professional Experience

Presales Software Specialist Intern - American WorkFlows

November 2025 - Current

Simulate discovery process and product demonstration with unique businesses with specific enterprise software requirements. Perform product analysis to best position AWF software in the enterprise software market. Contribute to client onboarding processes to ensure successful implementation of enterprise solutions.

Digital Transformation Lead (Volunteer) - Laboratory Robotics Interest Group

October 2025 - Current

Performed requirements gathering and prepared software solutions to modernize communication and improve event planning process across 12 chapters. Managed multiple priorities in a deadline driven environment.

Floor Leader - Skechers, [REDACTED] NJ

June 2025 – Current

Improved business performance by mentoring staff, prioritizing customer service, and optimizing day-to-day staff operations and inventory management. Used clear communication and quick problem-solving to resolve customer and employee conflicts. Analyzed store sales data to ensure the store hit revenue goals.

Awards

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