

SYDNEY PACHECO

Howell, NJ, USA

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

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Skills

Languages & Tools: Java, Python, SQL, MySQL, PostgreSQL, MongoDB Atlas, Git/GitHub, Docker, Springboot

Backend & Frameworks: REST APIs, MVC Architecture, JWT Authentication, Java Servlets, JDBC, Redis

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

Databases: Database Design (ERDs), DDL, DML, Pandas, NumPy, Excel, Scikit-Learn, Matplotlib, Seaborn

Methodologies: Agile, CI/CD (GitHub Actions), Testing (JUnit), Requirements Gathering, Documentation

Education

Rutgers University, New Brunswick, NJ

September 2023 – August 2025

Bachelor of Science in Computer Science

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

September 2021 – August 2023

Associate of Arts in Computer Science

Relevant Courses: Data Structures, Systems Analysis and Design, Database Concepts, Computer Logic & Design,

Programming I & II, Calculus II, Statistics, Macroeconomics, Public Speaking

Projects

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 SQL database and implemented role-based CRUD operations with error handling. Documented database architecture and user flows to support integration and testing.

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 scalable RESTful API with secure JWT authentication and Redis-backed refresh/access tokens. Integrated Stripe for payment processing. Deployed using Render.

Self-Care Recommendation Model (Data analysis/ Predictive Modeling)

[Github Repository](#)

Tech Stack: Python, Pandas, Matplotlib, Seaborn, Sci-kit Learn, Numpy

Collected and processed crowd-sourced data. Trained and evaluated multivariate machine learning models to predict self-care activities for specific mood levels, energy levels, and day times. Documented methodology, preprocessing steps, and evaluation results.

Professional Experience

Presales Software Engineer Educational Intern - American WorkFlows

November 2025 - Current

Performed requirements gathering and technical evaluations to align product capabilities with business needs. Contributed to onboarding and integration processes to ensure smooth and successful implementation of enterprise solutions.

Digital Transformation Lead (Volunteer) - Laboratory Robotics Interest Group

October 2025 - Current

Gathered requirements and helped design software solutions to modernize communication across 12 chapters.

Floor Leader - Sketchers, Tinton Falls, NJ

June 2025 – Current

Analyzed store sales data to ensure the store hit revenue goals. Mentored staff, delivered exceptional customer service, and optimized staff operations and inventory management. Used clear communication and quick problem-solving to resolve customer and employee conflicts.

Awards

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