

Antonio Pichardo

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EDUCATION

RUTGERS UNIVERSITY

Bachelor of Arts;

BA Computer Science; BA Economics

Coursework: Data Structures, Computer Architecture, Systems Programming, Calculus II, Intermediate Microeconomic Analysis, Discrete Structures I, International Economics, Stats

New Brunswick, NJ

Expected May 2028

Leadership Positions:

Student Body Treasurer - Rutgers University; **Treasurer** - BridgeRutgers; **Alto Saxophone Section Leader** - Rutgers Marching Band, **C Team Captain** - Rutgers Taekwondo; **General Clubs:** ALPFA, RUBITS, Colorstack, Latino Student Council, MASA

SKILLS

- **Development:** Python (Pandas, NumPy, Scikit-Learn, BeautifulSoup), C++, Java, C, JavaScript, Rust, SQL, R
- **Data & Analysis:** Data Scraping, Data Mining, Data Analysis, Statistics, Forecasting, Demand Forecasting, Financial Modeling
- **Cloud & DevOps:** AWS (EC2, Lambda, S3), Cloudflare Workers, CI/CD, Git,

WORK EXPERIENCE

State of NJ - Department of Treasury

Trenton, NJ

Software Engineer Intern,

May 2026 - Present

- **Administered and optimized** IBM TRIRIGA enterprise applications, automating **15+** core workflow processes to reduce lease procurement cycle times by **25%** across state-managed properties.
- **Engineered and optimized relational databases** handling over 100,000+ rows of statewide real estate and asset data; tuned complex SQL queries to improve data retrieval speeds and analytical pipeline performance by 40%.
- **Leveraged Python, REST APIs, and version control (Git)** to build automated data synchronization scripts, eliminating 15+ hours of manual data workflows weekly and achieving 100% data ingestion accuracy.
- **Collaborated with cross-functional teams** using Agile methodologies to rapidly deploy 10 critical applications and data infrastructure enhancements, cutting software deployment lead times by 30%.

Keller Williams Prime Realty

Vineland, NJ

Data Analyst Intern

June 2025 –Aug 2025

- **Scraped** competitor brokerage and county websites using **Python (BeautifulSoup)** to gather market listing trends and shifts for strategy development, leading to an increase of +3% market share in Cumberland, Salem, and Cape May Counties YTD.
- **Curated** slides and spreadsheets using **PowerPoint** and **Excel** in order to better visualize data for recruitment strategies, leading to an increase of **+12% new agents** onboarded and **+68%** enrolled in a licensure program.

PROJECTS & COMPETITIONS

tonerbot - Discord Bot & Admin Dashboard | TypeScript, Node.js, Express, SQLite, Docker, Azure Container Apps

Jun 2026-

- **Engineered** a TypeScript/Node.js Discord bot that plays music and acts as an admin tool in Discord servers with discord.js, @discordjs/voice, FFmpeg, YouTube/Spotify APIs, SQLite, and Canvas rank cards; 20+ slash commands for music, XP/levels, and server management
- **Architected** an Express.js administrative dashboard utilizing Discord OAuth2 and REST APIs; utilized Docker for containerization and orchestrated deployment to Azure Container Apps via ACR and Azure CLI.

BillBuddy | IBM Datathon - 3rd Place out of 53 teams

Feb 2025

- **Built an end-to-end data pipeline** that ingests unstructured medical invoice images using OCR technology, transforming raw, disparate data points into clean, structured, and HIPAA-compliant relational datasets.
- **Developed a predictive machine learning model** in Python to evaluate pricing disparities, performing statistical market-average benchmarking ("your price vs. market average vs. savings") to uncover arbitrage or negotiation opportunities.
- **Designed a scalable backend** architecture deployed via a single API endpoint; generated algorithmic, multi-language data outputs designed to interface cleanly with massive insurance claims datasets.

Gridiron & Pitch | sports.tonypichardo.com

Jun 2026

- **Engineered** a responsive, data-driven single-page application featuring real-time hydration of live sports analytics, dynamic schedules, and comprehensive roster tables.
- **Implemented** an asynchronous data pipeline to orchestrate multi-endpoint REST API consumption, seamlessly consolidating live scoring streams, team standings, and deep-roster payloads.
- **Optimized** system throughput and network latency by offloading computing tasks to edge locations, executing light processing rules before hydrating the client UI.