

Shawn Broderick

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OBJECTIVE

Seeking full-time software engineering roles beginning May 2026 upon graduation from RIT.

EDUCATION

Rochester Institute of Technology

Bachelor of Science in Computer Science, Minor in Mathematics | GPA: 3.65

West Henrietta, NY

Aug. 2022 – May 2026

- **Relevant Coursework:** Analysis of Algorithms (Data Structures and Algorithms), Machine Learning, Programming Language Concepts, Principles of Data Management, Algorithmic Trading

WORK EXPERIENCE

Paychex

(January 2025– August 2025) — Remote

Software Development Intern

- Migrated 150+ Angular Material component instances across two enterprise applications to an internal component library, maintaining 99–100% Jasmine coverage and collaborating with UX to standardize cases with no 1:1 mapping.
- Maintained Jenkins CI pipeline health by diagnosing failing builds and dependency issues; deployed to shared test environments and seeded MongoDB with synthetic data for Selenium integration testing.
- Conducted an Angular 15 to 22 upgrade spike, documenting breaking changes and dependency blockers to inform the engineering roadmap.

Rochester Institute of Technology

(October 2024 – Present) — West Henrietta, NY

Service Desk Dev Team Member

February 2026 - Present

- Developing full-stack features for the Service Desk's internal employee resource and management platform using Flask and React.

Information Technology Support Desk Representative

October 2024 – Present

- Delivered first-line technical support for the RIT community, resolving 400+ tickets in ServiceNow across account management, network registration, and hardware/software troubleshooting.

First Citizens Bank

(May 2024 – August 2024) — Morristown, NJ

Enterprise Corporate Intern

- Self-initiated and built a full-stack distribution list management tool in Next.js and Express.js with zero prior experience in either framework, directly addressing an unmet operational needs.
- Application allowed incident teams to manage contact groups, select shared email templates, and auto-generate pre-addressed .eml files, reducing manual distribution list assembly.

PROJECTS

Stock Backtesting Framework/Algorithms | Python, yFinance

September 2025 – December 2025

- Built a Python backtesting framework from scratch capable of evaluating trading strategies against historical price, market cap, and cash flow data, of the S&P500 sourced via yFinance and Wikipedia scraping.
- Validated the framework by reverse-engineering the Invesco S&P 500 Momentum ETF (SPMO) rebalancing methodology, achieving 96% prediction accuracy on target rebalance dates.
- Developed a Momentum/Cash Flow-weighted portfolio strategy using the framework, backtesting 82% returns over a 2-year window.

PKP - Startup | React Native, Express.js, Firebase FCM

May 2025 – December 2025

- Development on a full-stack Android/iOS React Native application for vendor-event matching.
- Implemented Firebase Cloud Messaging for in-app and push notifications for the application.

Custom Language Interpreter | Java

September 2024 – December 2024

- Built a full interpreter in Java for a custom language, implementing lexical analysis, syntax parsing, abstract syntax tree validation, and runtime execution.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, Javascript

Frameworks: Angular, React, React Native, Next.js, Express.js

Developer Tools: Git, Jenkins, Selenium, Firebase

Databases: PostgreSQL, MongoDB