

# Serena Burton

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## Education

CUNY, Queens College  
BA in Computer Science

Aug 2017 – May 2021

## Skills/Technologies

Python, TypeScript, JavaScript, Java, Spring Boot, React, Jest, Selenium, AWS Lambda, ECS, DynamoDB, SQS, Step Functions, CI/CD, PostgreSQL, Grafana

## Experience

Associate Software Engineer  
Wells Fargo

New York Metro Area  
Nov 2023 – Present

- Developed an interactive UI for tracking application statuses on remediation servers using **TypeScript, JavaScript, and React**, improving operational visibility for engineers.
- Optimized testing infrastructure, expanding Jest test coverage to 60 percent, meeting production standards and improve application reliability.
- Built a real-time monitoring and alerting system using **AWS CloudWatch, Grafana, and Lambda**, enabling proactive issue detection and proactive system health monitoring.

Software Engineer  
JP Morgan Chase

New York Metro Area  
July 2021 – Mar 2023

- Built a trading simulation system using **Spring Boot**, implementing **RESTful web services** and integrating third-party APIs to predict market trends based on historical data.
- Conducted quality assurance testing using **Selenium and Java**, ensuring internal financial applications functioned seamlessly.
- Enhanced the scalability of financial applications by redesigning monolithic structures into **microservices**, achieving faster CI/CD deployments, enhancing fault tolerance and increasing system resilience.

Software Engineer Intern  
JP Morgan Chase

New York Metro Area  
June 2020 – Aug 2020

- Developed a real-time analytics dashboard using **React and TypeScript**, improving visualization of financial performance metrics.
- Automated compliance tracking through **Python and SQL** scripts, streamlining regulatory reporting.
- Contributed to Agile sprints, collaborating in daily stand-ups and peer code reviews to enhance software quality.

Google CodeU Student  
Google

Mountain View, CA  
May 2018 - Aug 2018

- Utilized React and TypeScript to develop a dynamic web interface that displayed analytics and progress tracking, improving user engagement.
- Worked on an internal tool to automate compliance tracking, leveraging Python and SQL to streamline regulatory reporting processes.
- Followed Agile development methodologies, participated in daily stand-ups, sprint planning, and peer code reviews to ensure high-quality development practices.

## Projects

Pokemon Trading Card App (Trade cards locally)

January 2025 - Present

-Developing an interactive real-time trading platform for Pokémon card collectors, allowing users to post, browse, and negotiate trades through a location-aware gallery.(React Native (JavaScript/TypeScript), Google Maps API, Firebase Firestore (NoSQL, Real-time Sync), OAuth 2.0)