

Joshua Carpentier

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Quality Assurance Engineer | Capital One | New York, NY

Jun 2024 - Dec 2024

- Performed integration testing in a micro frontend architecture using the Vue.js testing library and internal tools, ensuring seamless front-end functionality and an optimal user experience for Capital One agents using the Empath application.
- Executed thorough testing across high-priority credit card types (Primary Consumer, CreditWise, Small Business) to validate complex workflows involving account managers and authorized users, ensuring accuracy across all user interactions.
- Enhanced test coverage for the "Update Citizenship" workflow across various account types, achieving a 73.51% increase in function coverage and a 14.46% increase in statement and line coverage.

Business System Analyst | TD Bank | New York, NY

Nov 2022 - Nov 2023

- Facilitated SAFe adoption and enhanced team collaboration across technical and non-technical teams by partnering with Product Owners, Scrum Masters, and Stakeholders during Agile ceremonies, leading to a 12% increase in organization-wide SAFe adoption.
- Owned product backlog refinement and maintenance in Jira, prioritizing features and defining user stories with clear acceptance criteria. These efforts increased team efficiency by 20% and provided a well-defined roadmap for development.
- Collaborated with and supported Cre8tive Devs, a third-party technical training vendor, to develop and implement an internal upskilling program.
- Developed a skill matrix in PowerBI, integrating key software engineering metrics like velocity, cycle time, and lead time. Analyzed trends in high-demand technologies to drive data-informed decisions, while conducting needs assessments with stakeholders, including interviews with software engineers and their leads, to align upskilling initiatives with organizational goals and enhance strategic planning and resource allocation.
- Supported the upskilling of 200+ software engineers, from associate to senior levels, by creating documentation and assisting with WSL and Docker setup. This initiative, spanning 10 cohorts over 5 months, covered Advanced Java, Spring Boot, Docker, Event-Driven Architecture, and Reactive Programming.

Full-Stack Engineer | TracFlo | New York, NY

Jun 2022 - Sept 2022

- As part of Tracflo's product launch, I developed 13+ features over 16 weeks using a PERN stack within a Linux environment. These features allowed 50+ general contractors and subcontracting companies to manage projects with up to 35+ active users with varying roles and permissions.
- My work included creating a ticket feature that enabled users to create, edit, and access equipment and materials, resulting in an average of 135+ tickets per company project. I managed feature branches, submitted draft PRs, and maintained coding standards while handling merge conflicts.
- Using the Knex.js library, I constructed 30+ migration files to migrate data from older PHP WordPress applications to the new Express.js server running TracFlo's API. This allowed a team of 9+ developers to create new endpoints and routes on the server, 10% ahead of schedule.
- To ensure optimal functionality and minimize potential bugs, I employed TDD (Test Driven Development) by creating 25+ tests using the Chai and Mocha test suite. I meticulously debugged HTTP requests on various routes and extensively tested PostgreSQL database functionality using mock data generated by SQL Fixtures and shell scripts.

Skills

- **Frameworks** - Bootstrap, Express.js, Vue.js
- **Languages** - Typescript, Java, Python, SQL
- **Libraries** - React, Redux, Material UI
- **Tools & Technologies** - Docker, WSL, AWS, Obsidian, Confluence, Jira

CUNY Tech Prep - Full-Stack Engineer Apprenticeship

New York City College of Technology - Bachelor's Degree in Computer Information Systems