# Joshua Carpentier

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## SUMMARY

Versatile Software Engineer with 4 years of experience in full-stack web development, quality assurance, and Agile methodologies, specializing in solutions for financial institutions and fintech companies within the construction industry. Proficient in TypeScript, Java, and the PERN stack, with a track record of delivering scalable, secure applications that align with industry standards. Increased test coverage by 70% for critical workflows in a high-traffic credit card servicing platform, ensuring reliability and performance. Skilled in SAFe adoption, Jira backlog management, and developing technical documentation to drive upskilling initiatives and support data-driven decision-making. Effective communicator with a history of resolving complex technical challenges, supporting technical training initiatives for software engineers, and delivering technical solutions.

## TECHNICAL SKILLS

**Language:** JavaScript (ES6), TypeScript, Python, Java, Bash, HTML/HTML5 & CSS, SQL
**Databases:** PostgreSQL, MongoDB
**Frameworks/Libraries:** Bootstrap, Material UI, Express.js, Node.js, React, Redux, Vue.js
**PM Tools:** Google Suite, Microsoft Suite, Slack, Jira, Trello, Lucidchart
**Services:** Git/GitHub, Linux, AWS, Postman

## PROFESSIONAL EXPERIENCE

**Quality Assurance Engineer** | Capital One | New York, NY                    **Jun 2024 - Present**
- 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 internal credit card servicing application.
- Executed thorough testing across high-priority credit card types 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.
- Coordinated feature branch workflows by implementing clear branching strategies, aligning timelines, and promoting frequent merges. This shortened branch lifecycles, minimized technical debt, and boosted development velocity, ensuring clean, stable builds in the Jenkins pipeline.

**Business System Analyst** | TD Bank | New York, NY                    **Nov 2022 - Nov 2023**
- Managed product backlog refinement and maintenance in Jira, prioritizing features and defining user stories with clear acceptance criteria. These efforts enhanced team efficiency by 20% and established a well-defined development roadmap.
- 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 engineers and 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 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, developed 13+ features over 16 weeks using a PERN stack. Enabling 50+ general contractors and subcontracting companies to manage projects with over 35 active users.
- Created a ticket feature that enabled users to create, edit, and access equipment and materials, resulting in an average of 135+ tickets per company project.
- Utilized the Knex.js library to construct 30+ migration files for migrating data from older PHP WordPress applications to the new Express.js server running TracFlo's API. This enabled a team of 9+ developers to create new endpoints and routes on the server, completing the project 10% ahead of schedule.

## CERTIFICATIONS

**Google Data Analytics Professional Certificate**                                          **June 2024**

## EDUCATION

**CUNY- New York City College Of Technology**                                               New York, NY
*BA Computer Information Systems*

**CUNY Tech Prep**                                                                           New York, NY
*Full-Stack Engineer Apprenticeship*

## TECHNICAL PROJECTS

**DevHiveMind** | **Deployed Preview**                                          **October 2022-Present**
- DevHiveMind is a centralized and comprehensive software development encyclopedia built-in Obsidian. Meticulously curated, it serves as a valuable resource for both seasoned developers and beginners. This well-organized collection covers a wide range of topics in the software development domain, offering insights, best practices, tutorials, and in-depth explanations of concepts, tools, and technologies.
- **Technology**: CSS, HTML, JavaScript, Java, Python

**Under The Wing** | Repository                                           **June 2021-October 2021**
- A web platform that helps college students find working-professional mentors.
- **Technology**: Docker, Express.js, Javascript, Node, PostgreSQL, React