

Joshua Carpentier

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SUMMARY

Experienced Software Engineer with a strong background in full-stack web development, testing, and technical documentation. Proficient with Typescript, Java, and PERN stack. Demonstrated expertise in Agile methodologies, including SAFe adoption and backlog management in Jira. Skilled in developing scalable web applications, enhancing and test coverage. Adept at creating technical documentation and conducting needs assessments to drive data-informed decisions. Strong collaboration and communication skills, with a proven track record of supporting upskilling initiatives and resolving complex technical issues.

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 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, developed 13+ features over 16 weeks using a PERN stack. These features enabled 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.

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

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