

# Marcus Brooks

Greater Washington Metropolitan Area

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## WORK EXPERIENCE

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### CATT Lab (Center for Advanced Transportation Technology Laboratory)

Software Engineer

Remote

June 2023 – Sept 2025

- Implemented the redesign of a web app in React which visualizes transportation data with interactive Mapbox maps, delivering a cleaner interface and more intuitive user experience
- Designed and built a system to track on-time performance for transit vehicles using Redis, powering a front-end dashboard that provides a high-level overview of transit data broken down by transit provider to aid executive level decision making
- Developed a password reset workflow using Conform and Zod for form validation, with Remix handling verification code emails and interfacing with our REST API to securely validate users and update their password
- Created Storybook entries to allow for the testing of React components in isolation and the ability to simulate states that would otherwise be difficult to test in the live application, resulting in a better testing experience for quality assurance

### Vortex Games

Game Developer - Rushdown Revolt

Remote

Aug 2021 – Oct 2022

- Built a promotional video camera tool in C# for the media department, that was used to create a video which resulted in a 10x increase in daily active users for several days
- Improved the player experience by implementing a round robin matchmaking system for matching players within a lobby, enabling an even distribution of matches between players
- Created a responsive system that adjusted music and background elements based on in-game combat intensity, improving the feeling of combat in the game

## SKILLS

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**Languages:** Javascript, Typescript, HTML5, CSS3, Sass, C#, Java

**Frameworks:** Remix, Redux, Express

**Libraries:** React, React Router, Mapbox, Zod, Conform, D3

**Version Control:** Git

**Testing:** Jest, React Testing Library, Storybook

**Database:** Redis, PostgreSQL

**Other:** Jira, Figma, Node.js, Sentry, Google Analytics, Miro

## EDUCATION

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University of Maryland

Bachelor of Science in Computer Science

College Park, MD