Marcus Brooks

Greater Washington Metropolitan Area
(304) 433-2552 | marcusbrookswebdev@gmail.com | LinkedIn

WORK EXPERIENCE

CATT Lab (Center for Advanced Transportation Technology Laboratory)   **Remote**
Junior Software Engineer   June 2023 – Present

- Implemented the redesign of a web app visualizing 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   **Remote**
Game Developer - Rushdown Revolt   Aug 2021 – Oct 2022

- Collaborated with the design and media teams to streamline game content creation and increase user engagement through the development of various tools and systems
- Built reusable tooling for level creation in Unity, developed a promotional video camera tool for the media department with C#, and designed a responsive system that adjusted music and background elements based on in-game combat intensity
- Increased daily active users by 10x for several days through the promotional video tool
- Improved gameplay by refining existing game modes and introducing new ones

SKILLS

Languages: Javascript, Typescript, HTML5, CSS3, Sass, C#, Java
Frameworks: Remix, Redux, Express
Libraries: React, Mapbox, Zod, Conform
Version Control: Git
Testing: Jest, React Testing Library, Storybook
Database: Redis, PostgreSQL
Other: Jira, Figma, Node.js, Google Analytics

EDUCATION

University of Maryland   **College Park, MD**
Bachelor of Science in Computer Science