Sam Brandon

Frontend Engineer | Knoxville, TN | 510-856-6441
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TECHNICAL SKILLS

Languages - JavaScript (ES5/ES6), HTML5, CSS3, Flexbox, Python, MySQL, MongoDB, Redis
Libraries/Frameworks - React, Sass, Redux, Bootstrap, Typescript, Axios, Three.js, use-cannon, Fiber
Testing - Jest, Enzyme, Mocha, Chai, New Relic
Tools - Webpack, GitHub, NPM, Yarn, Babel, Trello, Docker, AWS, AWS S3 buckets, AWS EC2
Techniques - Agile Development, Pair-Programming, Problem Solving, Web Design

WEB APPLICATIONS / PORTFOLIO

3D Adventure Portfolio - Frontend Engineer | React, Three.js, Fiber, Drei, Special Effects, Sass

➢ 3D goblin adventure simulation built in React and Three.js
➢ Components handle physics, animation, movement, lighting, and scenery
➢ Created utility components with Drei for scene effects and dev scene tools
➢ Used custom 3D Models with unique animations and effects
➢ Created Dynamic Camera movement using Three.js, for each stop on the Adventure
➢ Used PostProcessing to create special effects components for reusability
➢ Utilized AWS Amplify to continuously detect changes from GitHub and auto-deploy updates

Car Shop - Frontend Engineer | React, Three.js, TypeScript, Sass, use-cannon

➢ Editable 3D Tesla car editor with collision physics and color editor
➢ Used React-Three-Fiber to create a car model
➢ 3D components created for reusable assets and lighting
➢ Created a 360-degree background with encoding & mapping on an Equirectangular Texture
➢ Implemented realistic physics to tesla car using use-cannon react hooks interface

Nature Tours - Full-Stack Developer | React, TypeScript, Sass

➢ Website to showcase skills learned through advanced CSS and SASS certification. Showcases modern eCommerce style website with element, image, and text CSS animations.
➢ Responsive components utilizing keyframes to create animation, hovers, and media queries
➢ Implemented BEM methodology for reusable CSS architecture inside React Typescript app
➢ Built with responsive media queries to scale with a screen resolution

PROFESSIONAL EXPERIENCE

Frontend Engineer |Refactoring The Interview | Knoxville, TN   **2022**
➢ Implemented frontend CSS architecture for FlashCards component
➢ Scoped project goals and deliverables with engineers
➢ Implemented integration of Three.js components

Theater Operator | Patrick Brandon Design | Castro Valley, CA   **2016 - 2020**
➢ Lead a team, utilized and maintained a theatrical lighting system
➢ Coordinated with non-technical teammates to achieve operational goals

Certifications

Three.js with React Certificate | Udemy   **2022**
  Three.js with React-three-fiber and its environmental setting and uses

Advanced CSS and SASS Certificate | Udemy   **2022**
  Advanced and modern CSS, CSS architecture, animations, and responsive designs

Advanced Software Engineering Certificate | Hack Reactor @ Galvanize   **2021**
  1500+ hours of full-stack development, coding, and problem-solving in a professional environment