Conor Bell
Software Engineer

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TECHNICAL SKILLS

TypeScript, JavaScript, React, Next.js, Express, Node.js, GraphQL, NoSQL(MongoDB), SQL(PostgreSQL), HTML5, CSS, Tailwind CSS, Jest, three.js, GSAP, React Router, React Three Fiber, jQuery, webpack, Vite, Git, GitHub, Supabase, Redux, Adobe Premiere

EXPERIENCE

Software Engineer | Qevlar   **2023 - Present**
- Built a comprehensive open-source GraphQL vulnerability testing library with a team of four developers using JavaScript and Express, strategically countering 10 types of DoS attacks, and deployed as an npm package with zero dependencies
- Constructed a performant landing page with React to showcase the library's testing capabilities through visualizations of tests, and achieved a lighthouse score of 98 for performance and accessibility
- Spearheaded integration of 3D animation libraries, three.js and React Three Fiber, into the landing page's codebase, capitalizing on React Three Fiber's seamless integration with React to foster code readability and a smoother learning curve for future contributors
- Employed React-three fiber to design a custom 3D model and leveraged the useFrame hook to animate the model on the landing page's background, enhancing the UI/UX of the website
- Created the Security Scanning Configuration Service using Express GraphQL, creating a security suite for engineering teams to utilize for adaptive analysis of GraphQL APIs
- Engineered GraphQL batch testing functionality with the Fetch API for concurrent execution of GraphQL queries on the consumer's API and immediately displayed test results in CLI for real-time analysis
- Developed the Load Performance Testing Platform using Node.js, integrating with GraphQL APIs at scale to identify throughput performance and high percentile latency while receiving 1,000s of queries
- Crafted interactive CLI prompts with Node's readline interface, facilitating seamless navigation for consumers new to testing and GraphQL, resulting in a 50% reduction in testing time
- Architected Jest unit tests for security testing suite, expanding test coverage to 80%, ensuring system accuracy and enabling smooth onboarding for future contributors
- Implemented Agile Methodologies, delivering 3 projects early through focused team collaboration and clear sprint goals

Web Developer | Freelance   **2022 - 2023**
- Built client's website utilizing Next.js and Supabase buckets for photo storage, ensuring seamless accessibility and optimizing user experience
- Integrated TailwindCSS to upgrade front-end styling productivity, using utility classes to speed up development time and write CSS code locally within HTML elements, leading to a safer styling environment and 100% eliminating styling conflicts
- Leveraged TypeScript to incorporate static typing into codebase, identifying and resolving 20+ errors during compile time than runtime, improving overall development efficiency
- Engineered a custom modal using React and TailwindCSS to showcase individual works in client's portfolio, enhancing user engagement through an immersive and interactive display interface

PROJECTS

Chef's Selection | Menu & Grocery App
- Migrated App to Next.js, refactored client-side components to server-side components, resulting in loading time under 2 seconds, and achieved a Lighthouse score of 98
- Devised custom state management using React's Context API facilitating the addition of meal and grocery items to the user's shopping cart and enabling access at checkout
- Integrated React Router to establish an efficient routing system, enhancing scalability and organization while minimizing server requests and decreasing page load time by 70%

Interactive Database Filter | Super Smash Character Recommender
- Incorporated Cheerio, a parsing library for JavaScript, for lightweight and efficient DOM manipulation to simultaneously extract and parse 4 HTML tables from a designated web page for an efficient data processing pipeline
- Structured PostgreSQL tables with parsed data on character attributes to track and manage relationships within diverse datasets for 23 characters, enhancing the effectiveness of data organization, retrieval, and customization for users

PUBLICATIONS/TECH TALKS

Lightweight Yet Mighty: Why Qevlar's Approach Is Reshaping GraphQL Security| Medium Article

EDUCATION

Ithaca College | B.A.

INTERESTS

Trained theatrical clown, dying in FromSoftware games, waiting for HunterXHunter to return, slow cooking, Criterion Collection