

Cyrus Burns

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TECHNICAL SKILLS

- JavaScript, React, Node, Express, Redux, React Native, HTML, CSS, MongoDB, AWS, Git, MySQL, Postgres, Docker, Redux Toolkit, WebSocket, Socket.io, MUI, Tailwind.css, Webpack, Next.js, Kubernetes, Vite, Framer-Motion, Three.js, Shadcd/ui, Aceternity, AutoCAD, PhotoShop, Figma.

EXPERIENCE

Seatr

Founding Engineer

2024-Present

New York, NY

- Leveraged React Native and Expo Router to develop a native iOS and Android peer-to-peer marketplace application.
- Utilized MongoDB and Firebase to engineer a robust and scalable data storage system, ensuring comprehensive control and security over user information while maximizing horizontal and vertical scalability to facilitate optimal growth potential.
- Implemented seamless native map integration featuring geo-locations, advanced clustering, and real-time data display, enhancing user engagement and interaction within the application ecosystem.
- Spearheaded the comprehensive development and seamless integration of multiple APIs to elevate user experience and functionality within Seatr's platform, ultimately contributing to significant increases in user satisfaction, engagement, and retention rates.
- Integrated Stripe to increase authorization rates, optimize checkout conversion, and offer local payment methods.
- Created a Figma vision board to maintain a high standard for UI/UX decisions and system design flow across the platform.

ReactType

Software Engineer

2023-2024

New York, NY

- Implemented multiple innovative product features by leveraging React with TypeScript, incorporating best practices and design patterns to ensure safer and more efficient development, ultimately resulting in increased user engagement, and retention.
- Achieved a remarkable 30x improvement in bundle time by strategically restructuring file architecture, continuously updating configuration files, optimizing dependencies, and successfully migrating ReactType's immense codebase from Webpack to Vite.
- Leveraged Socket.IO to architect and deploy a dynamic live chat and collaboration room, fostering seamless real-time bidirectional communication between our server and front-end interfaces, thereby enhancing team collaboration and user engagement.
- Implemented industry-leading authentication practices in our Node and Express backend, expertly integrating OAuth, bcrypt, and JWTs for unparalleled user data security and authentication reliability.
- Engineered a scalable and robust video meeting interface by integrating VideoSDK throughout Node.js and Express, meticulously optimizing middleware utilization and refining API handling to ensure seamless and uninterrupted conferencing experiences.
- Utilized Jest to create and refactor unit tests, guaranteeing the functionality of new features without introducing bugs.
- Employed MUI, Tailwind.css, Shadcd/ui, and Aceternity within a Next.js structure to craft a sleek and modern landing page design.
- Refined the drag-and-drop algorithm in React and TypeScript, leveraging recursion for precise code previews.
- Leveraged Redux and Redux Toolkit to seamlessly orchestrate the application's state and data flow, empowering comprehensive control and efficient data management throughout the entirety of the app's lifecycle and development process.

OPEN SOURCE

SmartCar

- Developed an AI-powered virtual car using vanilla JavaScript, leveraging object-oriented programming and machine learning techniques to enable autonomous navigation around traffic through a neural network of sensors.

CodeShare

- Utilized MongoDB to store users' uploaded images and information input via DropZone and Formik.
- Integrated Morgan, Multer, and Helmet in my Express server to handle file uploads and processing efficiently.

EDUCATION

Indiana University

Luddy School of Informatics, Computing, and Engineering

Bloomington, IN

PUBLICATIONS AND TALKS

- Published a comprehensive article detailing the latest updates to ReactType on [Medium](https://medium.com).
- Gave an engaging Tech Talk sponsored by CaseBlink delving into the intricacies of caching in system design viewable on [LinkedIn](https://www.linkedin.com/in/cyburns).

INTERESTS

Fitness - I maintain a heavy weight lifting schedule of five to six days a week for over four years mainly to justify my love for food.

Music - I have cultivated my passion for music into a hobby of composing original songs that combine electronic music with 90's grunge.