

# Cyrus Burns

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## TECHNICAL SKILLS

- JavaScript | TypeScript | React | Node | Express | Redux | React Native | Expo Router | Next | GraphQL | tRPC | HTML | CSS | MongoDB | AWS | Git | MySQL | Jest | Unit Testing | Postgres | Docker | Socket.io | MUI | Tailwind.css | Webpack | Kubernetes | Vite | Three.js | PhotoShop | Figma | OOP | Framer-Motion | CI/CD | OAuth - *All professional proficiency or above.*

## EXPERIENCE

### Founding Engineer

*Seatr*

**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 scalable data storage system, achieving a 50% reduction in data retrieval time, and ensuring control and security over user information while maximizing horizontal and vertical scalability to facilitate optimal growth.
- 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 seamless integration of multiple APIs to elevate user experience and functionality within Seatr's platform.
- 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.

### Software Engineer

*ReactType*

**2023-2024**

*New York, NY*

- Accomplished multiple innovative product features such as a live video and chat collaboration room by leveraging React with TypeScript, incorporating best practices and design patterns to ensure safer and more efficient development.
- Achieved a 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.
- Led the ongoing TypeScript conversion initiative, elevating conversion rates from 75% to over 95%.
- Used Socket.IO to architect and deploy live chat and collaboration room, fostering seamless real-time bidirectional communication between our server and front-end interfaces, allowing users to engage and create in a time of remote work.
- Implemented industry-leading authentication practices in a Node and Express backend, integrating OAuth, bcrypt for password hashing, and JWTs for token-based authentication, ensuring user data security and authentication reliability.
- Engineered a scalable and robust video meeting interface by integrating VideoSDK throughout Node.js and Express, optimizing middleware utilization and refining API handling to ensure seamless and uninterrupted conferencing experiences.
- Applied Jest to create and refactor unit tests, guaranteeing the functionality of new features without introducing bugs and increasing total test coverage to upwards of 80%.
- Employed MUI, Tailwind.css, Shadcn/ui, and Aceternity within a Next.js structure to craft a sleek and modern landing page design.
- Refined state and data flow management within the application by implementing Redux and Redux Toolkit, enhancing control and optimizing data handling across all stages of development and the application lifecycle.

## 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

- Chose MongoDB to store users' uploaded images and information input via DropZone and Formik.
- Integrated Morgan, Multer, and Helmet in an 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](#).
- Gave an engaging Tech Talk sponsored by CaseBlink delving into the intricacies of caching in system design viewable on [LinkedIn](#).

## 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.