

Cyrus Burns

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TECHNICAL SKILLS

- JavaScript | TypeScript | React | Node | Express | Redux | React Native | Expo Router | Next | Prisma | GraphQL | tRPC | HTML | CSS | MongoDB | AWS | Firebase | 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

2023-Present

Auda *New York, NY*

- Leveraged React Native with TypeScript and Expo Router to develop a native mobile application from scratch natively for both iOS and Android which allows users to share and discover new music with friends, find communities, and grow businesses.
- Utilized Google Cloud storage to engineer a scalable data 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.
- Spearheaded the seamless integration of multiple APIs to elevate user experience and functionality within Auda's platform.
- Managed a Node and Express-powered server to handle data flow efficiently and safely.
- Created a Figma vision board to maintain a high standard for UI/UX decisions and system design flow across the app.
- Followed test-driven-development practices to ensure full security throughout the app and minimize technical debt.
- Designed the company logo and brand identity with a strategic focus on maximizing user acquisition and engagement.

Software Engineer

2023-2024

ReactType *New York, NY*

- 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 PRODUCTS

SmartCar - AI-Powered Autonomous Virtual Vehicle

- Developed an AI-powered virtual vehicle, utilizing vanilla JavaScript and embracing the principles of object-oriented programming
- Utilized machine learning techniques to enable the virtual car to adapt and improve navigation strategies.
- Designed an advanced neural network of sensors enabling precise detection and response to environmental changes.

CodeShare - A web application that allows users to share code snippets and connect over tech interests.

- Used MongoDB to store users' uploaded images and information input via DropZone and Formik; all verified by Yup's object schema.
- Utilised Node and Express to create a fully integrated custom authentication system leveraging technologies like bcrypt, jwt, and others to create a seamless and fully secure backend along with Morgan, Multer, and Helmet to handle file uploads efficiently.

EDUCATION

Indiana University, Luddy School of Informatics, Computing, and Engineering

Bloomington, IN

NOLS, National Outdoor Leadership School, PCX

Patagonia, Chile

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).

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.