Dylan Curran

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Education: **Waterford Institute of Technology** (Waterford, Ireland)
B.S. in Multimedia Applications Design

Skills: **Programming:** HTML, CSS/SCSS/Styled-Components, Javascript, Typescript, React, Node.js, NextJS, SQL/NoSQL, AWS
Methodologies: Agile/Scrum, Lean, Waterfall

Experience: **Vena Solutions** (Toronto, Canada) [Sep 2022 - Sep 2023]
Senior Software Engineer / Staff Software Engineer

- Collaborated extensively with the Calcs team to develop and deploy robust financial applications.
- Spearheaded three major initiatives: the Currency Exchange feature, the Allocations feature, and converting Vena's monolith to a microfrontend structure.
- Engineered modular microfrontends using React, Typescript, and Webpack module federation.
- Overhauled state management from an old version of Redux to a more modern stack of react-query.
- Lead the updating of legacy packages throughout the application, including upgrading to React 18, converting Javascript to Typescript, and dozens of other packages like React Router and Webpack.
- Implemented advanced JavaScript methodologies across Vena's applications, utilizing state-machine inspired components to minimize complexity and potential bugs.
- Led significant refactoring of old front-end components, enhancing stability, boosting page performance, and minimizing load times. Identified and rectified dozens of bugs, reducing extraneous server requests.
- Played a pivotal role in design and product strategy sessions, contributing substantially to the trajectory of Vena's software.
- Guided and mentored multiple junior developers and co-op students, ensuring their integration into the team and fostering their front-end skill development.

Thriver (Toronto, Canada) [Apr 2021 - Aug 2022]
Senior Front-End Engineer

- Take ownership of features and co-ordinate with the product team to deliver in a responsible and timely manner.
- Write reusable React components in Typescript to assure a more reliable and secure codebase.
- Style UI components with SCSS.
- Test features across various browsers to ensure there are no compatibility or performance issues.

- Develop in a highly-optimized manner to reduce load times and bundle sizes.
- Collaborate with the back-end team to work with the GraphQL API.
- Write reusable GraphQL queries with Apollo.
- Develop features such as location-based services, platform-wide reviews, personalized recommendations, as well as hundreds of bug fixes and performance optimizations.

BIMM / Audi Canada (Toronto, Canada) [Oct 2020 - Apr 2021]
Senior Front-End Engineer

- Worked closely with the globally distributed Audi team to create large, innovative consumer applications.
- Became owner of several features within Audi's ecosystem, most noticeably their Comparison Tool which was released to great praise.
- Developed highly reusable components in NextJS, React, and Styled-Components that had to interact with multiple APIs seamlessly.
- Frequently had to work with and optimize GraphQL queries/schemas, squeezing as much performance out of Apollo as possible.
- Implemented scalable Javascript practices throughout Audi's applications, including state-machine inspired components to limit potential complexity and bugs.
- Refactored large parts of Audi's vehicle inventory application, increasing stability, improving page performance by 40%, eliminating unnecessary re-renders, and discovering and promptly fixing several bugs that were costing the company thousands in unnecessary requests.
- Participate in design and product discussions, having a large influence on the direction of new applications.
- Operating flexibly and swapping between Javascript and Typescript depending on the application.
- Refactored Audi's vehicle inventory application and developed the Comparison Tool to comply with WCAG guidelines.

VFT Solutions, Inc (Toronto, Canada) [Apr 2017 - Oct 2020]
Front-End Engineer

- Implemented Chart.js as a visualization layer in a React application, as well as maintained the legacy Python browser scraper data visualization.
- Created a REST API with browser scraper built in Node.js microservices to handle large volumes of data from internal databases (MySQL, MongoDB).
- Worked closely with internal stakeholders and clients to create revitalized front-end dashboard, built in functional React with Material-UI and CSS-in-JS.
- Constructed and maintained dozens of functional React components, making them highly reusable throughout our applications via prop-drilling, state management, and custom hooks.

- Implemented global state management solution using React's Context API to manage authentication, including pre-authenticated internal users and detailed user settings.
- Created a detailed reporting system from which users could convert and download large quantities of data into compressed CSV or Excel Workbook formats. It gave users the ability to download thousands of rows of data in under a second.
- Rapidly educated myself on browser scraping with Node.js and Python to build a temporary data collection method after Facebook changed their API restrictions.
- Ensured support for a variety of browsers with E2E and client-side testing, primarily with Jest.
- Integrated the Node.js back-end with several social media OAuth protocols, drastically reducing data collection costs by 80%.

Volunteering: **Déise Animal Sanctuary**

- Working with charities is a particular passion of mine. The Sanctuary is particularly close to my heart because that is where I rescued my beautiful dog Chloe from.
- As they are dog-lovers and not web developers, I offered my services to create a sleek website with in-built donation abilities, and I covered their expenses.

CoderDojo

- A programming computer club for children, I volunteered at CoderDojo as a mentor. My primary role was helping children learn programming languages and principles.