Alexander Greff

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Seattle, WA
github.com/alex-greff

Experience

JPMorgan Chase / WePay　　　　　　　　　　　　　　　　　　　**Feb. 2023 – Present**
Lead Software Engineer　　　　　　　　　　　　　　　　　　　　　*Seattle, WA*
- Led development of a NextJS knowledge center micro-frontend, integrating it with an existing content management system (CMS) to enable real-time updates of content, and successfully deployed to over 250 business clients
- Engineering lead on a new performance metrics micro-frontend, responsible for interacting with XFN, driving key engineering decisions, including establishing a CI pipeline configuration used by all frontend teams in the organization
- Drove full rewrite of production authentication service used by over 200 merchant partners, seamlessly migrating out of legacy monolith architecture to modern client-server model, leading to increased productivity and reliability
- Rewrote and modernized core React library of over 50 components, introducing type-safety with TypeScript and Storybook documentation, leading to foundational improvements in reliability and performance of dependent projects

Meta　　　　　　　　　　　　　　　　　　　　　　　　　　　**Sep. 2022 – Nov. 2022**
Frontend Engineer (Bootcamp)　　　　　　　　　　　　　　　　　　*Seattle, WA*
- Refined the suggested groups component in Workplace, integrating it into Feed to increase impressions and improve visibility of useful groups for users to join
- Implemented data prefetching for internal tool search page, greatly improving initial page load times

OneSixtyTwo Digital Capital　　　　　　　　　　　　　　　　　**May 2021 – Aug. 2022**
Frontend Engineer Intern / Part-time to Full-time Contract　　　　　　　　　*Toronto, ON*
- Improved investor and order management workflow for CEO & CTO by designing and developing CRM tool using Flutter
- Developed full-stack web application with React and Fast API for displaying flexible graphical analytics of real-time in-house market data, used by investment team to make informed investment decisions

Caseware International　　　　　　　　　　　　　　　　　　　　**Jan. 2019 – Aug. 2019**
Software Developer Intern　　　　　　　　　　　　　　　　　　　　*Toronto, ON*
- Worked on production code of leading financial auditing software solution, developing 20+ features and improvements
- Proposed and led development of a dashboard project, significantly improving user workflow of auditing solution
- Developed dialog system upgrade using Vue.js, improving code reusability and UI design consistency

University of Toronto　　　　　　　　　　　　　　　　　　　　**Jan. 2020 – May 2022**
Teaching Assistant - Web Development　　　　　　　　　　　　　　　　*Toronto, ON*
- Designed new lab for course, teaching the basics of frontend development using modern React
- Delivered a guest lecture about WebAssembly to 140-person lecture section, along with supplementary demo projects

Projects

Synctune | Source/Live demo | *TypeScript, Node.js/Express, Redis, Vue, Sass, Docker*　　**April 2020**
- A web app built in team of two that syncs audio files across multiple peers with host controlling playback
- Synchronization, audio playback, and distribution of audio files implemented with WebRTC using the PeerJS library
- Backend service to manage rooms, built with Express, TypeScript and Redis, deployed in a Docker container in the Cloud
- Responsive frontend client built using Vue.js, TypeScript and SASS/SCSS

Websocket Server & Client | Source/Live demo | *React, TypeScript, Electron, Node.js, Python*　　**Nov. 2021**
- Flexible spec-compliant Websocket client and server libraries implemented ground up from the TCP layer
- Cross-platform chatroom web app using Electron and React, showcasing flexibility of server and client libraries

Education

University of Toronto　　　　　　　　　　　　　　　　　　　　**Sep. 2017 – May 2022**
Honors with High Distinction, Bachelor of Science in Computer Science　　　　　*Toronto, ON*

Technical Skills

Languages / Frameworks: React, GraphQL/Relay, Vue.js, JavaScript/TypeScript/Flow, Python, Java, C/C++
Developer Tools: Git, Docker, SQL and NoSQL databases
Methodology: Testing, Debugging, Agile, Design patterns, RESTful APIs, Responsive Design, Problem Solving, Collaboration
Platforms: Linux/Unix, MacOS, Node.js, Web, Android