CHRISTOPHER KROGH

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COMPUTER SCIENCE, UNIVERSITY OF WATERLOO, CLASS OF SUMMER 2022

EXPERIENCE

CO-FOUNDER & SOFTWARE ENGINEER, SELL YOUR STUFF LTD   09/2020 – PRESENT
- Developing a full stack ecommerce platform for small businesses in Trinidad and Tobago to sell products online by integrating with local payment provider WiPay and shipping provider UPSL APIs.

SOFTWARE ENGINEER INTERN, WEBVELOPER   04/2020 – 08/2020
- Implemented performant UI components using **memoization** to eliminate unnecessary renders on our template site.
- Designed critical business logic in custom **hooks** to allow reuse, unit level testing and to increase codebase modularity.
- Reduced dev server build time from ~30s to ~10s by implementing **hot module reloading** with custom **webpack** config.

SOFTWARE ENGINEER INTERN, INTUIT   09/2019 - 12/2019
- Implemented new pages in TurboTax using object-oriented **Java** with 100% diff coverage on unit tests.
- Reduced TurboTax build time by 45% by parallelizing **Typescript** compilation with **Gulp**, saving teammates **40 hours/year**.
- Automated large manual tasks like regression test script conversion using Replay and VM deployment using PowerShell.

FULL STACK DEVELOPER INTERN, MANULIFE FINANCIAL   01/2019 - 04/2019
- Implemented API endpoints for a **.NET Core** web app to receive users' insurance data and trigger financial calculations.
- Developed adaptive **React** components featuring state persistence with **Redux**, to hook into back-end calculation services.

SOFTWARE DEVELOPER INTERN, TELEIOS-SYSTEMS LTD.   05/2018 - 08/2018
- Created and **dockerized** a Windows service that sent data back to the host using **web sockets** as a POC.
- Developed a Bank Teller bot using Microsoft Bot Framework that featured handoff to humans and Microsoft's NLU service.

PROJECTS

ANOTER NOTE APP *React (experimental), Relay (experimental), Express, GraphQL, MongoDB, AWS, TypeScript*
- Engineered a note taking app to experiment with React Concurrent Mode UI patterns and Relay data fetching patterns.
- Created a **GraphQL** subscription that uses a web socket connection to sync notes between the database and the client app.

VOLUNTIR *React, Express, MongoDB, TypeScript*
- Engineering a platform that allows users to find nearby volunteer opportunities and share their experiences.
- Designed MongoDB aggregations to sort and fetch **GeoJSON** data to build personal feeds.

KIT *Selenium, Google Sheets API, Python*
- Automated sending periodic messages to friends on WhatsApp to keep in touch during the global pandemic.

SPOTT *React, Express, Google Maps and Geocoding APIs, MongoDB, Azure Blob Storage, Azure DevOps, JavaScript*
- Created a web app allowing users to pin images and videos to a location on a map so users can view them publicly.
- Constructed **CI** and **CD** pipelines using Azure DevOps to automatically trigger builds and releases using **git** hooks.

VINGS *React Native, Azure Functions, Azure Table Storage, JavaScript, C#*
- Developed and **launched** an expense tracker app that accumulated over 700 users on both iOS and Android.
- Engineered a service using **Azure functions** that cached exchange rates, to reduce the number of calls to an external **API**.

SOCKET CHAT *Socket.io, JavaScript, HTML, CSS*
- Created a chat web app using NodeJS, Express, and **Socket.io** to learn more about web sockets.

SUMMARY OF SKILLS

BACKEND: NodeJS, Express, GraphQL, .NET Core, AWS, Azure, GCP.   FRONTEND: React, React Native, HTML, CSS, Swift.
UTILITY: Bash shell scripting, PowerShell, Git.   DATABASES: MongoDB, SQL.

ACTIVITIES
- **Web Administrator** of the Association of Caribbean Students at the University of Waterloo.
- National swim team member of Trinidad and Tobago and captain of my high school swim team and dragon boat team.
- Passionate about building cool stuff, travelling, photography, hiking, fitness, meeting new people and learning new things :)