

CHRISTOPHER KROGH

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EXPERIENCE

FOUNDING SOFTWARE ENGINEER, DOT

01/2021 – 09/2021

- Architected, designed, and implemented an e-wallet app using **React Native** for Trinidad and Tobago.
- Built **GraphQL** microservices using **Apollo** Federation to handle authentication and processes P2P and VISA transactions.
- Configured container orchestration using **Kubernetes** to integrate with GitHub actions to manage the CI/CD pipeline.

FRONTEND ENGINEER INTERN, FAIRE

01/2021 – 04/2021

- Built marketplace carousels, search components for editing preorders, and prompts for fixing cart issues using **React**.
- Restructured a **NodeJS** server into a monorepo using **yarn workspaces** to add a web app that triggers actions manually.
- Configured end to end tests using **Cypress** to run on mobile web, testing uncovered use cases.

SOFTWARE ENGINEER INTERN, WEBVELOPER

04/2020 – 08/2020

- Built performant site editor features with **React** using memoization and custom hooks for reuse and increase 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**.

FULL STACK DEVELOPER INTERN, MANULIFE FINANCIAL

01/2019 - 04/2019

- Developed adaptive **React** components featuring state persistence with **Redux**, to hook into insurance calculation services.
- Implemented API endpoints for a **.NET Core** web service to receive users' insurance data and trigger financial calculations.

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.

PROJECTS

CARIBTO, *React, NextJS, Ethers, Hardhat, OpenZeppelin, ChaiJS, TypeScript, Solidity*

[GitHub](#)

- Designed and implemented fiat on / off ramp platform to purchase local stable coins in the Caribbean.
- Tested and deployed an **ERC20** token preset from **OpenZeppelin** to the Polygon Mumbai test network using **Hardhat**.

COLORZ, *React, NextJS, Ethers, Hardhat, OpenZeppelin, ChaiJS, TypeScript, Solidity*

[GitHub](#)

- Built a Dapp that allows users to mint their favorite colors on the blockchain as NFTs.
- Tested and deployed an **ERC721** contract to the Polygon Mumbai test network using **Hardhat**.

SELL YOUR STUFF *React, NextJS, Apollo, GraphQL, MongoDB, TypeScript*

[GitHub](#)

- Implemented an order management experience using **React** and **Apollo** for sellers to keep track of orders on the platform.

ANOTHER NOTE APP *React (exp), Relay (exp), Express, GraphQL, MongoDB, Travis CI, AWS, TypeScript*

[Github](#)

- Engineered a note taking app to experiment with **React Concurrent Mode** UI patterns and **Relay** data fetching patterns.

VINGS *React Native, Azure Functions, Azure Table Storage, JavaScript, C#*

[GitHub](#)

- 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**.

SUMMARY OF SKILLS

FRONTEND: React, React Native, NextJS, Apollo, Relay, HTML, CSS, JS

BLOCKCHAIN: Ethers, Hardhat, Solidity

BACKEND: NodeJS, Express, GraphQL, .NET Core, Docker, Kubernetes

DATABASES: MongoDB, MySQL, Redis

EDUCATION

UNIVERSITY OF WATERLOO, Bachelor of Computer Science – Statistics Minor

09/2017-04/2022

ACTIVITIES

- Passionate about crypto, Formula 1, travelling, photography, hiking, meeting new people and learning new things :)
- National swim team member of Trinidad and Tobago and captain of my high school swim team and dragon boat team.