

EDUCATION

University of Waterloo — BAsC Systems Design Engineering, Option in Computing

2017-2022

EXPERIENCE

Twitter — Design Engineering Intern

New York, May 2021 - Aug 2021

- Built a Figma Plugin with React and TypeScript to easily version and maintain the Twitter emoji library—automating workflows of 500+ engineers and designers.
- Designed, developed, and shipped a new design system documentation experience to improve usability and accessibility.

Shopify — Frontend Developer Intern

Waterloo, Sep 2020 - Dec 2020

- Led front-end development of organization ownership transfer feature using React Hooks, TypeScript, and Apollo GraphQL.
- Built and delivered global two-factor authentication feature to 1000+ of Shopify's largest merchants.

Cognite — Software Engineering & Product Design Intern

Oslo, Jan 2020 - Apr 2020

- Architected and developed new data-centric business application from design to release using TypeScript, React Hooks, Styled Components, Redux, and Firebase.
- Led the development of 15+ foundational, reusable, and themed components—informed by 6+ user interviews, interactive workshops, and design system guidelines.

Microsoft — Software Engineering Intern

Seattle, May 2019 - Aug 2019

- Led design and development of Microsoft's Power Platform diagnostics tool built using React, TypeScript and Kusto.
- Decreased support ticket volume by 20% and increased NPS by 7pts by building end-to-end stacktrace tool for error diagnostics for 40,000+ companies.

Bungalow — Software Engineering Intern

Kitchener, Sep 2018 - Mar 2019

- Increased efficiency by 16% in the lead funnel through implementing a Slackbot engine to automate 600+ monthly events.
- Designed and developed 2 highly requested customer features using Python Django and Vue.js.
- Led redesign of the initial user application, increasing sign-up conversion rate by 15%, improving data visibility in the conversion pipeline, and enabling A/B testing.

Live Labs (CIBC) — Full-stack Developer Intern

Toronto, Jan 2018 - Apr 2018

- Defined, architected, and developed 3 standalone projects with Java Spring, Swift iOS, Android, Docker, and AWS.
- Developed a Bitcoin wallet for Android and iOS using the Bitcoinj library, Java Spring, and Pivotal Web Services (PWS)

RESEARCH & PROJECTS

Quantum Storytelling | Undergraduate Research Assistant

Sep 2021 - Present

- Using AR/VR and interactive digital storytelling to represent transformative quantum technologies, supervised by Prof. Lai-Tze Fan.

Introduction to React + Hooks Workshop | [youtube](#) | [github](#)

Dec 2020 - Mar 2021

- Created and presented interactive workshop for 500+ students at Hack the North 2020++ and McGill University's Bolt Conference.

Waterworks | React, TypeScript, Python, Flask | [waterworks.digital](#)

Nov 2020 - Mar 2021

- Created an interactive heatmap of where people have cried on University of Waterloo campus, as seen on [CBC](#), [CTV](#), [Imprint](#).

SKILLS

Languages — TypeScript, JavaScript, HTML/CSS, Python, Java, C/C++

Frameworks & Tools — Git, React, Redux, Node.js, Flask, Django, Spring Boot, GraphQL, MongoDB, PostgreSQL, OpenGL

Product & Design — UI/UX (Figma), Information Architecture, User Research & Testing, Accessibility, Workshop Facilitation

Other — Creative Coding, Caring for houseplants, Oil painting, Memory techniques