### 21 Grange Ave, Toronto, ON, M5T 1C6 ruthmarks151@gmail.com (416) 678-0185 ruthmarks151

# **Experience**

## Freelance Sabbatical

May. 2023 - Present Toronto, ON

- TypeScript Web Psychology Experiment Platform Developed a TypeScript monorepo for building and deploying families of browser based psychology experiments. In use at McMaster University improving code quality and reuse
- Rust Exhaust Fan Selection Web App Built a full stack Rust application for the selection of chemical exhaust fans - modeling diverse fan physics with Rust traits and building web features with Axum and Yew

## **SeamlessMD**

### **Senior Software** Developer

Dec. 2021 - Apr. 2023 Toronto, ON

- Led a team that delivered high-impact projects in SeamlessMD's remote patient monitoring apps and internal tools using TypeScript, React, React Native, and Ruby on Rails.
- Enhanced release quality and limited downtime by implementing continuous integration tooling, conducting regular code reviews, and adopting GitFlow-style release management.
- Architected the migration of React and React Native patient apps to a TypeScript monorepo, with shared packages for common logic, improving velocity and reducing bug surface
- Prepared and delivered training, including lectures and pairing sessions to teach non-technical team members how to use Ruby and Typescript to improve the tools they use every day.
- Integrated Bluetooth medical devices with existing health-check surveys within a tight s2-month proposal deadline

# **TELUS Health Virtual Care** (Formerly Akira)

**Software Developer** 

Mar. 2020 - Nov. 2021 Toronto, ON

- Worked on Akira's patient experience team to deliver virtual healthcare to eight-hundred thousand Canadians
- Developed major features with React and Ruby, using Kotlin/Swift to integrate web and mobile apps
- Created browser based image processing tools used to extract 100's of new clinician's signatures from photos
- Represented development in product meetings to extract implicit requirements and produce dev-ready feature scopes

# Adracare Inc.

#### **R&D** Contractor. Software R&D Intern •

May 2019 - Oct. 2019 Toronto, ON

- Developed radiology and medical practice management software using Ruby on Rails and Ember JS
- Reverse engineered OAuth and REST APIs using packet analysis to integrate with another medical records system
- Integrated clinic phone systems with Adracare, reducing call times and improving patient experience

## PortfolioLink

**Sole Proprietor** 

Built and sold bespoke analytics software for investment portfolio managers

# CIBC Live Labs

**Innovation Engineer Co-op** 

# Intrinsyc Technologies

**Software Engineering Co-op** 

Toronto, ON May 2015 - Jul. 2015

Vancouver, BC

May 2016 - Aug. 2016

Mar. 2017 - Nov. 2018

Hamilton, ON

# **Education**

# McMaster University

**Bachelor of Engineering Software Engineering** 

Sep. 2014 - Apr. 2020 3.1/4.0 Equivalent GPA

# **Projects**

# **Interactive Nursing Education** (Freelance Project)

May 2021 - Aug. 2021

Operationalized a platform for interactive nursing education used by 50,000 students globally. Converted an AngularJS proof-of-concept to a modular React app and established dev-ops strategy

## **Gravimetric Dosing Espresso Machine**

September 2020 - January 2021

Augmented a second hand espresso machine with new controls electronics enabling precise weight based dispensing of espresso. Built using Typescript, Raspberry Pi, and a Breville Dual Boiler

## **Software Suppoort** for Psychology Research

#### **McMaster Cognitive** Science of Memory and Attention Lab

Sep. 2019 - April 2020

Lead code reviews with experimental psychologists to identify errors and improve code quality of computer experiments.