

# Ryan Marks

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## Work Experience

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### VendorPM

Full Stack  
Development  
Contractor  
Nov. 2019 - Present  
Toronto, ON

- Delivered V1 of a Yelp-style platform for property managers to review their vendors
- Developed pages using React functional components, hooks, and Apollo GraphQL
- Created scalable GraphQL endpoints using Node.JS and a hosted MongoDB cluster
- Organized development priorities instituting Kanban boards and bug tracking

### Adracare

R&D Contractor  
Software R&D Intern  
May 2019 - Oct. 2019  
Toronto, ON

- Developed features for Adracare's medical practice software using Ruby on Rails and Ember JS
- Integrated clinics' phone systems with Adracare so a patient's file is displayed whenever they call
- Reduced developer setup time from a day to 20 minutes by containerizing the app with Docker
- Analyzed network traffic from another medical scheduling system to reverse engineer its APIs for use with Adracare

### PortfolioLink

Sole Proprietor  
Mar. 2017 - Nov. 2018

- Developed a contract solution for investment portfolio managers, which spun off into a SaaS business
- Independently developed a complete minimum viable product using Django
- Eliminated a major bottleneck by calculating account values with Postgres, causing a 4x speedup over Python
- Sold intellectual property and code to a customer bringing the software in-house

### CIBC Live Labs

Innovation Engineer  
Co-op  
May 2016 - Aug. 2016

- Lead a co-op team in development of a Java chatbot for personal banking
- Developed a natural language search solution to compete with vendor proposals

### Intrinsyc Technologies

Software Engineering  
Co-op  
May 2015 - Jul. 2015

- Developed an Android app to test single board computer hardware, reducing defects and speeding up factory testing by 4x
- Implemented a Java utility for securely updating and flashing Qualcomm devices

## Education

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### McMaster University

Bachelor of Engineering  
Software Engineering  
Sep. 2014 - Present  
3.1/4.0 Equivalent GPA  
Expected completion: April 2020

## Projects

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### Wildfire Alarm System

WildfireAlarm.org  
Sep. 2019 - Present

Wildfire Alarm is a web app and wireless network of sensors that can be deployed in an area at risk of wildfires to monitor the environment and notify personnel of possible fires. The software was built in a serverless microservices architecture and uses React, Google ML Kit, and Cloud Functions

### Software Support for Psychology Research

McMaster Psychology,  
Neuroscience & Behaviour  
Department  
Sep. 2019 - Present

Lead code reviews with psychology researchers to identify errors and improve code quality of computer experiments. Automated scoring of experiment audio saving 100's of researcher hours.

### Anterior EEG Cross-Frequency Correlation in Preoperative Anxiety

J. Sriranjani, C. Chow,  
R. Marks, & L. Schmidt  
Mar. 2019

Developed signal processing algorithms to isolate EEG activity levels in pediatric surgery patients to examine the neurological underpinning of anxiety.