

# Justin Bull

Sr. Security Engineer, Sr. Software Engineer

## Profile

I am an energetic, dedicated, and hard working problem solver with a curious mind & sharp attention to detail whilst maintaining a macro, system-wide perspective to architecture.

## Skills

### Quick Learner

I have a natural skill for becoming quickly proficient in any new environment, language, or paradigm. I'm always excited by the idea of mastering something new!

### Technical

10 years of professional experience in web development, self-taught from my teens, formalized through Ryerson University, freelancing, and work experience.

Ruby, Python, PHP, Java, MySQL, PostgreSQL, HTML & CSS, Rails, Sinatra, Backbone.js, AngularJS, React & Redux, ELK Stack.

## Work Experience

### Senior Security Engineer – Wealthsimple

2018 – pres.

As the sole security engineer, I built & maintained security features such as 2FA, login history, & device tracking. I also worked with the director to monitor, log, analyze, and respond to security incidents and anomalous behaviour on our networks. I mentored engineers on secure design principles and also overhauled the architecture to be more secure. During my tenure I identified and resolved many security vulnerabilities.

### Software Engineer – Wealthsimple

2016 – 2018

Working on the Trading Team, I helped build fault-tolerance, add resilience, and streamline and scale the trade generation workflow system.

### Software Developer – FreshBooks

2013 – 2016

Working within an agile scrum team, I helped implement the product redesign project into our 600,000 LoC legacy codebase. In addition, I helped develop internal tools to aid the company in making smart business decisions. I also identified and rectified security vulnerabilities.

### Web Application Developer – Conduit Labs

2012 – 2013

Co-Founded with Rob Gilson, we built tracking software using Rails, Backbone.js, Pusher, and Google APIs for a client.

### Web Application Developer – Konrad Group Inc.

2011 – 2012

My job was to build robust and scalable Ruby & PHP driven applications, rapidly producing standards-compliant web sites from design files made in Illustrator or Photoshop.

## Notable Works & Accomplishments

1. Developer 30 Under 30 Award recipient, 2018
2. Discovered & privately disclosed two moderate security issues to [SimpleTax](#).
3. Discovered & privately disclosed a site-ending, critical security issue to Fetlife.
4. Discovered & disclosed [CVE-2016-6582](#) for [Doorkeeper](#).
5. Discovered & disclosed [CVE-2015-7225](#) for [Devise-Two-Factor](#).
6. I identified and notified the Canada Revenue Agency (CRA) they were vulnerable to [Heartbleed](#).
  - Interview on [CTV's Power Play](#) (skip to 3:00)
  - Top story on [CBC's The National](#)
7. Rode the [Ride to Conquer Cancer](#) twice (220km), raising \$2,505 in 2013 and \$3,895 in 2018

## Education

### Ryerson University

Bachelor of Science, Computer Science

2009 – 2015

## Contact

**Email:** [me@justinbull.ca](mailto:me@justinbull.ca) ([PGP Key](#))

**Twitter:** <https://twitter.com/f3ndot>

**Phone:** +1 (416) 828-7375

*References available on request.*