

Justin Bull

Sr. Security Engineer, Sr. Software Engineer

Profile

I am an energetic, dedicated, and hard working problem solver with a curious mind. I have a 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 Software Engineer – Wealthsimple

2019 – pres.

Working on a tiger team, I was deployed on a variety of cross-functional, cross-domain deficiencies and built scalable, enduring solutions. Also on the Securities Management team I helped mature, automate and scale many of our back-office operations to handle exponential client growth. The latter was deep-dives into memory and CPU performance optimization and tuning.

Senior Security Engineer – Wealthsimple

2018 – 2019

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

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References available on request.