

Jack McCracken



[JackMc](#)



me@jackmc.xyz

About me!

I'm an application security engineer from Ottawa, Canada who loves helping organizations move fast and securely (and baking...and crosswords :)).

Skills and Technologies

- Ruby (on Rails)
 - Go
 - Python
 - Securing complex applications
 - Effective application security training for modern organizations
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Work Experience

GitHub Ottawa, ON (Remote) | March 2022 - Present



Staff Manager, Product Security Architecture March 2022 - Present

- Manage a team of 5 developers working on security libraries for developers, and architecture reviews of important new GitHub releases.

Shopify Ottawa, ON (Remote) | May 2016 - Present



Manager, Proactive Application Security Jan 2021 - Present

- Serve as the technical and people lead of a team of 7 engineers (2 interns, 5 full time engineers)
- Ship tooling to help teams prioritize security issues and understand their impact
- Help implement a universal severity system with resolution targets for all security issues
- Introduce and tweak static analysis tooling such as Semgrep and CodeQL, including developing new rules
- Continue to play an active role in the bug bounty program, handling high-severity findings ([example](#))
- Develop reporting for senior leaders to better understand their security debt
- Review and threat model the design of new products for application security and privacy issues
- Organize and develop content for monthly "Learn to Hack" workshops and yearly CTFs

Senior Application Security Engineer Jan 2018 - Jan 2021

- Organized efforts to bring the public Rails bug bounty program into a healthy state: triaging reports, developing patches and creating security advisories
- Reviewed the source code and designs of new products and applications in tandem with development teams, providing practical and actionable advice
- Developed employee authorization framework for per-store access requests
- Performed critical incident response work, both as a technical stakeholder and an incident commander

Application Security Engineer May 2017 - Jan 2018

- Developed a Content Security Policy (CSP) for Shopify's internal areas, authentication system, and administrative panel, making a successful cross site scripting (XSS) attack much less likely
- Added HTTPS-only enforcement and verification to Shopify webhooks and app proxies

Developer Intern, Application Security & Data Infrastructure May 2016 - January 2018

Developer Intern, DataCats Ottawa, ON | May 2015 - January 2016

