

# Jon Barber

APPLICATION SECURITY ENGINEER

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## Summary

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- Security engineer with 6+ years of experience pentesting and securing both web and mobile applications.
- Deep understanding of web security vulnerabilities and how to find, fix, and prevent them.
- Strong communicator able to explain complex technical details to any technical level audience, in small or large groups.
- Experienced at managing a large bug bounty program and building strong relationships within the researcher community.

## Experience

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### Facebook

Seattle, WA

SECURITY ENGINEER - PRODUCT SECURITY

Jun 2017 - Oct 2019

- Identified, fixed, and prevented security and privacy flaws in the code bases of Facebook and its family of products
- Seattle bug bounty lead, one of the core managers of program health, roadmap, triage, payouts, tooling, and live events
- Performed security reviews, improved static analysis tooling, and participated in various oncall rotations
- Collaborated cross-functionally with development teams, legal, comms, and other security teams
- Drove creation and adoption of the Private Bounty Program and Facebook-specific security documentation
- Developed and presented internal talks, Open Houses, Q&A panels, and recruiting events
- Supported the Internet Bug Bounty program as the Facebook panel member

### NCC Group

Seattle, WA

SENIOR SECURITY CONSULTANT - PENETRATION TESTING

Feb 2015 - Jun 2017

- Engaged in penetration tests and code reviews for Fortune 100 tech companies
- Discovered vulnerabilities in web apps, mobile apps, networks, network devices, architecture designs, and source code
- Tech led over 75% of engagements and directly managed consultants
- Performed self-directed research outputting an internal tool, Blackhat Arsenal presentation, and ToorCon talk

### FactSet

Norwalk, CT

SECURITY ENGINEER INTERN - SECURITY ASSURANCE GROUP

Jun 2014 - Dec 2014

- Found vulnerabilities in FactSet systems, applications, and products and managed their remediation
- Performed threat modeling, wrote security policies, and provided developer security training

## Projects

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### Project 2501

Seattle, WA

PERSONAL

Oct 2019 - Present

- Designed and developed infrastructure and tooling to perform large scale asset enumeration and monitoring of bug bounty programs
- Built a Flask web application front end that uses Redis-backed Celery queues to call a micro-service architecture backend comprised of custom AWS Step functions, Lambda Functions, Docker containers (ECS), SQS notification queues, S3 files, all stored in MySQL on RDS
- Integration with Slack and email for alerts and notifications

### Wireless Elephant in the Room

Seattle, WA

SECURITY RESEARCH

Oct 2016

- Found zero days in 20 common off-the-shelf home routers including command injection via the Internet, auth bypass, ISP backdoor, and more
- Worked with router manufacturers to get the discovered issues resolved
- Presented findings, discovery process, and recommendations at ToorCon San Diego

## Education

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### B.S. - Computing Security

Rochester, NY

ROCHESTER INSTITUTE OF TECHNOLOGY

Aug 2012 - Dec 2014

- President - RIT Competitive Cyber Security Club
- Vice President of Research - SPARSA

### B.F.A. - Film and Animation

Rochester, NY

ROCHESTER INSTITUTE OF TECHNOLOGY

Aug 2009 - May 2013