





## Shivasurya (Shiva)

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Hackerone: [shivasurya](#)

Google VRP: [shivasurya](#)

**Software engineer with more than three years of specialized work experience in saas development and application security (appsec). Currently seeking a challenging software engineering role.**

### Education

University of Waterloo, Canada

Sept 2019 – Current

Master's in Computer Science (GPA 3.85/4.0) - Expected Apr 2021

### Work Experience

Security Software Engineer, Zoho (zoho.com)

Apr 2017 – Aug 2019

SaaS Products with 50+ Million customers including CRM, Mail, Books

- Contributed to Zoho internal security framework to prevent vulnerability & attacks in realtime including mitigation of SQL Injections, cross-site scripting, server request forgery using input validation framework.
- Deployed continuous mobile security static code analysis using HackSaw internal security to mitigate issues in mobile apps and zoho sdk frameworks.
- Handled **Secured Audit** for new features or major edition roll outs by defining threat model & auditing source code
- Found 120+ security issues through **code audit, blackbox and pentesting approach** in \*.zoho.com products.
- Lead mobile, web security and managed [bugbounty program](#) for 70+ Zoho, ManageEngine cloud products.
- Managed security education program for developers to adopt best practices during the development lifecycle through CTF, Internal Hacking Challenge.
- **Tech Stack:** Java, JavaScript, Python, MySQL, PostgreSQL, Docker, Apache Kafka, Android, OSCP Tools, PMD, CodeQL, Lombok AST, OWASP Top 10, Mitre Attack Matrix for Benchmarking

### Public Security Contributions

- **CVE-2018-16493** - Found directory traversal leading to internal file access attack in a npm package
- APKTool Remote Code Execution via Zip Slip - reported to opensource and fixes are [here](#)
- Found security issues in Google, Dropbox, Twitter, Zendesk, Microsoft and more via [Hackerone platform](#).

### Projects

**DEVAA - Automated approach to detect vulnerabilities in Android Apps (Thesis)**

An automated approach to prove the application vulnerability with the help of exploitation techniques by assembling payloads, target and verifying them with the help of ADB instrumentation frameworks in Android.

### Skills

**Programming Languages:** Java, NodeJS, Python, SQL, JavaScript, Kotlin, JavaScript

**Technologies and Frameworks:** Android, Reactjs, Apache Spark, Git, Docker, Kubernetes, Apache Kafka, OSCP Tools, Static Code analysis framework toolset, Lombok AST, CodeQL, OWASP Top 10, Mitre Attack Matrix

### Awards

Smart India Hackathon Winner + Internship @ISRO (Indian Space Research Organization) Govt. of India

Apr 2017