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SHIVASURYA

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EMPLOYMENT

Software Engineer, Full Time	Zoho Corporation	July 2018 – July 2019
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Zoho Security

- Developed mobile security framework and static analysis audit tool to detect vulnerabilities from source code for 54 Zoho and 10 ManageEngine android apps.
- Red team member – responsible for securing Zoho cloud applications, supporting infrastructure and assets.
- Managed overall Zoho internal and external bugbounty program to mitigate risk, verify security patches.

Software Engineer, Full Time	Zoho Corporation	May 2017 – July 2018
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Zoho Books

- Led Zoho finance mobile framework by implementing core features, common utilities used across finance application (Invoice, Expense, Inventory, Subscriptions, Books).
- Built and released Zoho invoice (GST Edition), prioritized features, bug fixes and technical support by leading a team of 3 engineers. Reduced crash rate and increased app stability by 40% across form factors.
- Led Zoho finance mobile apps security auditing, designing, adopting best practices for GDPR.

Software Engineer, Intern	Zoho Corporation	Dec 2016 – Apr 2017
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Zoho Invoice

- Released [invoice generator android app](#) (GST Edition) which has traction around 500K+ Downloads and ~50K+ MAU.

EDUCATION

Waterloo, ON	University of Waterloo	Sep 2019 – Apr 2021
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- M.Math. (Thesis) Computer Science, Apr 2021 (Expected).
- Graduate Coursework: Empirical Software Evolution; Computer Security and Privacy - Mobile; System Performance Evaluation, Empirical Software Engineering using Ultra Large Repositories;
- Thesis: Penetration testing framework for detecting android application vulnerabilities using dynamic analysis.

Madurai, TN	Thiagarajar College of Engineering	Jun 2013 – Apr 2017
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- B.Tech. in Computer Science, Apr 2017.
- Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp. Architecture; Web and Mobile Development; Computer Security and Privacy; Computer Network; Engineering Mathematics;

TECHNICAL EXPERIENCE

Projects

- **GoSchedule** (2019). Built an interactive scheduling system with NodeJS, SQL and workers as fun project.
- **Feedback Dialog** (2018). Material design component built using android material design system.

ADDITIONAL EXPERIENCE AND AWARDS

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- **Teaching Assistant (2019 – 2020):** CS 446 – android application development, CS 246.
 - **Winner, SIH 2017:** Awarded 2nd prize for building multi-factor authentication for openvpn, with internship opportunity at ISRO space agency, India.
 - **Google Vulnerability Reward Program:** [Global Rank: 237](#), awarded with leet-bounty and hall of fame.
 - [CVE-2018-16493](#) – Found handful of vulnerabilities in npm ecosystem & [hackerone bugbounty platform](#).

Languages and Technologies

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- C; Java; JavaScript; NodeJS; SQL; PHP;
 - AWS; Azure; GCP; Netlify; Git; GitHub Actions; Gitlab CI/CD; Jenkins; Android Studio; Rest API; Swagger;