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Visa: PGWP

SHIVASURYA

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EMPLOYMENT

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

- Security framework core team - built static analysis tool to detect vulnerabilities from source code.
- 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.
- Found 120+ security issues and mitigated across Zoho and data center applications including remote code execution, cross site scripting, local file inclusion security bugs etc.,

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

- Led Zoho finance mobile framework by implementing core features, tax module 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 (Finance)

- Built and released [invoice generator application](#) with traction around 500K+ downloads and 100K+ 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

- **Teaching Assistant (2019 – 2020):** CS 446, CS 246, CS 135.
- **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:** [Rank: 237](#), awarded with 2 leet-bounty (\$1337) and hall of fame.
- [CVE-2018-16493](#) & Found handful of vulnerabilities in [hackerone bugbounty platform](#) Dropbox, Twitter.

Languages and Technologies

- Java; JavaScript; NodeJS; SQL; PHP5; ExpressJS;
- AWS; Azure; GCP; Netlify; Git; GitHub Actions; Gitlab CI/CD; Jenkins; Rest API; Swagger; Docker; Android