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# **EDUCATION**

## University of California, San Diego (UCSD)

San Diego, CA

Masters of Science in Computer Science

 ${\rm Mar}~2021$  -  ${\rm Dec}~2022$ 

Coursework: Computer Security, Operating Systems, Virtualisation, Distributed Systems, Applied Cryptography

# Vellore Institute of Technology (VIT)

Vellore, India

B. Tech in Computer Science and Engineering

Jul 2013 - May 2017

Coursework: Operating Systems, Database Systems, Computer Networks, Software Engineering, Theory of Computation

## **SKILLS**

C, Python, Rust, Node.js, C++, SQL, MongoDB, HTML, CSS, JavaScript, Git, Linux, Shell, GDB, nftables

### **EXPERIENCE**

Meta Platforms, Inc.
Software Engineer Intern

CA, USA

Jun, 2022 - Sep, 2022

• Developing an automation framework to generate curated data pipeline definitions - to aid in regulating data usage for ads

• Technologies: Python, SQL

VMware Inc. CA, USA

Member of Technical Staff - Intern

Jun, 2021 - Sep, 2021

- Developed a tool allowing users to drag and drop elements to create a workflow which could be executed on a testbed
- Designed & implemented the application end-to-end: UI, Flask server, execution service
- Technologies: Python, HTML, CSS, JavaScript, Angular, isPlumb

Cisco Systems Inc.

Bengaluru, India

Software Engineer I-II

Aug, 2017 - Jan, 2021

- Optimised remote attestation workflows enabling better integration of IOS-XR with Crosswork Trust Insights.
- Designed & implemented secure storage services for TPAs based on Cisco TAm allowing customers to store secrets on box.
- Delivered an automated solution for the long standing issue of duplicate symbols in the OpenSSL libraries in XR.
- Replaced the custom implementation of SSH on XR by integrating OpenSSH including all the features offered by XR SSH.
- Built a comprehensive dashboard to track RAM usage in XR & workflows to automatically populate the data nightly.
- Technologies: C, Linux, Trusted Computing, Python (Scripting & Automation); Secure Storage: Go, Vault APIs

#### **PROJECTS**

Sandboxing libopus in Firefox (UCSD, Computer Security)

2021

- Sandboxed the Opus media library in the browser to reduce the attack surface with minimal impact to audio performance.
- Used the RLBox framework, measured performance impact and the changes made are in review for upstreaming

VITacademics (VIT)

2015 - 2017

- Developed and maintained the client applications & the server API to scrape information off of VIT'a academic portals.
- Helped 12,000+ students track their attendance, grades, timetables with ease.
- Technologies: Node.js, MongoDB, Heroku

#### **ACHIEVEMENTS**

- Won the 1<sup>st</sup> prize in the CTF Challenge in Cisco SecCon (Cisco's Annual Security Conference), APJC region, 2020.
- Won the 1st prize in the Cisco Service Provider Innovation Challenge (Internal Hackathon), India, 2019
- Won the 1st prize in the Cisco Service Provider Game of Codes (Internal Hackathon), India, 2018
- VIT Merit Scholarship: Received thrice for being in the top 1% of my department, based on academic excellence.
- Department Rank 4 for 2 consecutive years in a batch of 700 in Computer Science and Engineering.

# ROLES & RESPONISBILITIES

- Graduate Student Researcher at PLSysSec: Sandboxing different libraries using the RLBox framework
- Teaching Assistant: Responsible for conducting discussion sessions, office hours, grading & preparing assignments. CSE 30: Computer Organisation and Systems Programming (Spring '21, Fall '21, Winter '22)
- Organizer, graVITas 2016: Managed all the technical requirements of the fest website, apps, portals for management.
- President, IEEE CS-VIT, 2015: Organised several events, seminars & workshops on computing technologies.