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EDUCATION

University of California, San Diego (UCSD)

San Diego, CA Mar 2021 - Jun 2022

Masters of Science in Computer Science

Coursework: Computer Security, Principles of Computer Architecture

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

EXPERIENCE

Cisco Systems Inc.
Software Engineer I-II

Bengaluru, India

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

Cisco Systems

Bengaluru, India

Software Engineering Intern

Jan, 2017 - Jun, 2017

- Investigated and built a prototype for the packet tracing infrastructure on XR for the NCS55XX series of routers.
- Enhanced debug-ability on IOS-XE based on inputs from Cisco TAC engineers.
- Technologies: C, Wireshark, NPU Programming, tcpdump

SIBIA Analytics and Consulting Pvt Ltd

Kolkata, India

Software Engineering Intern

May, 2016 - Jul, 2016

- Developed an analytics dashboard for a client (national news provider) presenting the trends of their digital offerings.
- Implemented the front-end of the dashboard along with the email & report generation modules.
- Technologies: Node.js, Python, EJS, MongoDB, PhantomJS

PROJECTS

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

Smart Watering System (VIT, Microsoft Campus Connect Program)

2015

- Conceptualised and developed a system which could send a notification to a device when the soil has been watered enough.
- Built using a RaspberryPi and Azure technologies Azure SDK, Stream Analytics, Azure Notifications Hub

ACHIEVEMENTS

- Won the 1st 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

- Teaching Assistant: Responsible for conducting discussion sessions, office hours, grading & preparing assignments.

 Computer Organisation and Systems Programming (Spring 21)
- 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.