





# SANTOSH CHEJARLA

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## Education

### University of Illinois Urbana-Champaign

*Master of Computer Science, CPGA: 3.77/4*

**Aug. 2022 – Dec. 2023 (Expected)**

*Urbana-Champaign, USA*

### Ben-Gurion University of the Negev

*Data Mining and Business Intelligence for Cyber Security, Summer Student, Grade: 87%*

**Jul. 2019 – Aug. 2019**

*Be'er Sheva, Israel*

### Amrita Vishwa Vidyapeetham

*B.Tech in Computer Science and Engineering, CGPA: 9.44*

**2017 – 2021**

*Amritapuri, India*

## Experience

### Cisco Systems

**Aug. 2021 – Jun. 2022**

*Site Reliability Engineer*

*Bangalore, India*

- Developed ChatOps to assist developers and maintainers by providing a new interface to communicate with Cisco's on-prem OpenStack Cloud and GitLab using WebEx chat instead of CLI or Web-UI.
- Automating and troubleshooting Cisco's on-prem OpenStack Cloud services to improve the availability, scalability, reliability, and security of the Cloud.

### Cisco Systems

**Jan. 2021 – Jul. 2021**

*Technical Undergraduate Intern*

*Bangalore, India*

- Developed a tool that collected capacity & utilization metrics of Cisco's on-prem VMWare Cloud and provided visualizations on Tableau.

## Languages, Tools and Technologies

Python, Google Cloud Platform, MySQL, VMWare vSphere, OpenStack, Burp suite, Git, CI/CD, Ansible, Linux.

## Publications

**WebSecAsst - A Machine Learning based Chrome Extension | ICCES 21, [IEEE link]**

**2021**

**A Cost-Effective Framework for Developing and Testing Autonomous RC Cars | WiSPNET 21, [IEEE link]**

**2021**

## Projects

**Learned Distributed File System | ML for Distributed Systems**

**2022**

- Developed a failure-resistant distributed flat file system using a distributed group membership and failure detector for monitoring and detecting system failures.
- Implemented an ML model to predict and select the node with the highest download speed, increasing the overall efficiency and performance of the file system.

**Pandemic outbreak prediction | Complex Networks Analysis**

**2020**

- Proposed a new approach for predicting a pandemic outbreak in a community based on Social Networks.
- Introduced three new parameters for predicting the outbreak based on the "Average Degree" and "Degree of Separation" of the networks in the community, and the "R0" value of the pandemic.

**eth\_courier | Web development**

**2020**

- Developed a courier management webapp that supports Ether payments, deployed and tested the application on Ganache - personal Ethereum blockchain.

**CSE-B Asst. | Telegram bot**

**2018**

- Developed a Telegram bot that assisted my classmates to track their attendance, classes etc.

## Co-Curricular

**Team bi0s | Amrita Vishwa Vidyapeetham Academic Capture The Flag (CTF) Team**

**Jan. 2018 – Jan. 2019**

- Worked on Web Exploitation challenges and contributed to the teams success in many CTFs.
- Team bi0s is ranked number-1 CTF team in India and among top 50 across the world for the past 4 years as per [ctftime.org](https://ctftime.org).
- Developed challenges and hosted InCTF 2018, InCTFj 2018 and Bsides CTF Delhi 2018 along with the team.

## Achievements and Certifications

**SecCon APJC 2021 CTF | Online 2nd | Participated as a part of team newbies101**

**2021**

- SecCon APJC 2021 CTF is an online jeopardy CTF conducted by Cisco exclusively for Cisco's employees.

**Vidyut CTF | On-site 1st | Participated as a part of team newbies101**

**2019 & 2020**

- Vidyut CTF is an on-site jeopardy CTF conducted by Amrita Vishwa Vidyapeetham.

**Google Associate Cloud Engineer | Certification**

**2019**

- The Associate Cloud Engineer exam assesses the ability of developers to operate, configure and deploy Cloud-based solutions on Google Cloud Platform.