SANTOSH CHEJARLA

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Education

University of Illinois at Urbana-Champaign   **Aug. 2022 – Dec. 2023 (Expected)**
Master of Computer Science, CPGA: 3.88/4   *Urbana-Champaign, USA*
Coursework: Distributed Systems, ML for Systems, Cloud Computing Applications, IoT
Ben-Gurion University of the Negev   **Jul. 2019 – Aug. 2019**
Data Mining and Business Intelligence for Cyber Security, Summer Student, Grade: 87%   *Be'er Sheva, Israel*
Amrita Vishwa Vidyapeetham   **2017 – 2021**
B.Tech in Computer Science and Engineering, CGPA: 9.44/10   *Amritapuri, India*

Experience

Moloco   **May. 2023 – Present**
Site Reliability Engineer Intern   *Seattle, USA*
- Automated Elastic Cloud deployments with Terraform and Harness CD.
- Working on reducing development time for developers to test their micro-services using Tilt. Tilt automates the development loop by facilitating automated image building, direct file transfers to pods, and other essential functionalities.

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.

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, Terraform, AWS, GCP, OpenStack, MySql, 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

ML based 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 - Personal Project*   **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.
- 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.

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.