

# AYUSH AGARWAL

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## EDUCATION

**M.S. in Computer Science and Engineering**  
University of California, San Diego

Exp. Graduation Date: Jun 2022

**B.Tech in Computer Science and Engineering**  
Vellore Institute of Technology, Vellore

2013-2017  
GPA: 9.55/10.0

## WORK EXPERIENCE

### **Software Engineer II**

Aug 2019 – Jan 2021

**Cisco Systems India Pvt. Ltd., Bangalore, India**

- Stood 1<sup>st</sup> in the CTF challenge in Cisco SecCon (Cisco's Annual Security Conference), APJC Region, 2020 in a team of 4
- Improved attestation workflows in XR which enabled better integration with Crosswork Trust Insights in a team of 3
- Designed and implemented secure storage services on XR for TPAs in a team of 3
- Integrated OpenSSH in XR by replacing the custom implementation in a team of 5

### **Software Engineer**

Aug 2017 – Jul 2019

**Cisco Systems India Pvt. Ltd., Bangalore, India**

- Won the Service Provider Innovation Challenge (Internal Hackathon), India, 2019
- Won the Service Provider Game of Codes (Internal Hackathon), India, 2018
- Built a comprehensive dashboard to track RAM usage in XR & workflows to automatically populate the data nightly
- Worked on the GMPLS protocol on XR

### **Software Engineer Intern**

Jan 2017 – Jun 2017

**Cisco Systems India Pvt. Ltd., Bangalore, India**

- Designed and implemented the packet tracing infrastructure on IOS-XR for NCS55XX series of routers
- Enhanced debug-ability on IOS-XE and contributed to the development of the optics driver for NCS560

### **Summer Intern**

May 2016 – Jun 2016

**SIBIA Analytics and Consultancy Pvt. Ltd., Kolkata, India**

- Developed an analytics dashboard for a client (a national news provider) in a team of 2
- Handled client queries; analysed and incorporated change requests

### **Intern**

Dec 2014 – Jan 2015

**PDS Infotech Pvt. Ltd., Kolkata, India**

- Revamped the website – [www.jayasoftwares.com](http://www.jayasoftwares.com) using Bootstrap 3 in a team of 2

## PROJECTS

### **Hybrid Multiple Face Detection and Recognition**

2017

- Led a team of 3 to develop an optimal hybrid algorithm for face recognition without reducing accuracy and presented the same at International Conference on Advances in Computing 2017

### **VITacademics**

2015 – 2017

- Led a team of 5 to develop & maintain iOS, Windows, Android apps & the REST API to scrape information off of VIT's academic portals. Helped 12000+ students to track attendance, grades and timetable

### **Smart Watering System**

2015

- Led a team of 3 to conceptualize and develop the system using Azure technologies and RaspberryPi as part of the Microsoft Campus Connect Program. Designed and implemented the architecture successfully.

### **Perceptron Classifier**

2015

- Built a single layer, single-output perceptron network using Python to classify tumours as benign/malignant based on the available attributes as part of the Soft Computing course.

## **SKILLS**

C, Node.js, Python, C++, Go, HTML, CSS, JavaScript, SQL, MongoDB, Git, Linux, Shell/Bash, Flask, Django, Hadoop

## **ACADEMIC ACHIEVEMENTS & AWARDS**

- VIT Merit Scholarship: Received thrice for being in the top 1% of my department, based on academic excellence
- Department Rank 4 for two consecutive years, in a batch of 700 students in Computer Science and Engineering

## **ROLES & RESPONSIBILITIES**

- Organizer, graVITas 2016: Led a team of 10 to develop & maintain the website, Android, iOS & Windows apps. Created various portals to enable efficiency in management activities and make them paper free. Integrated online payment in the registration portal; 10000+ app downloads, 50000+ website hits
- President, IEEE Computer Society – VIT, 2015 – 16: On-boarded, recruited and managed 25 new members into the chapter. Organised events, seminars & workshops on computing technologies attended by several hundred students.