Ayush Agarwal
Software Engineer

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EXPERIENCE

Software Engineer II
Cisco Systems
08/2019 – Present   *Bangalore, India*

- Working as an engineer in the IOS-XR Security team
- Designing & implementing secure storage service for TPA
- Integrated OpenSSH into XR in a team of 5
- Participated in multiple internal hackathons

Software Engineer
Cisco Systems
08/2017 – 07/2019   *Bangalore, India*

- Won the Service Provider Innovation Challenge, India, 2019
- Won the Service Provider Game of Codes, India, 2018
- Built a comprehensive dashboard to track RAM usage by XR
- Built a tool to analyse static library & API dependencies in XR
- Worked on the GMPLS protocol on XR

Software Engineer Intern
Cisco Systems
01/2017 – 06/2017   *Bangalore, India*

- Designed & implemented packet tracing infrastructure on IOS-XR
- Enhanced debug-ability on IOS-XE
- Developed optics driver for NCS560 in a team of 2

Intern
SIBIA Analytics and Consultancy Pvt. Ltd.
05/2016 – 06/2016   *Kolkata, India*

- Developed an analytics dashboard for a client in a team of 2
- Handled client queries; analysed & incorporated change requests

Intern
PDS Infotech Pvt. Ltd.
05/2016 – 06/2016   *Kolkata, India*

- Revamped www.jayasoftwares.com using Bootstrap 3
- Implemented test projects using Google & Facebook APIs

EDUCATION

B.Tech, Computer Science & Engineering, 9.55/10
Vellore Institute of Technology
07/2013 – 05/2017   *Vellore, India*

- Soft Computing
- Database Systems
- Software Engineering
- Computer Networks
- Data Mining & Warehousing
- Data Structures & Algorithms
- Operating Systems
- Theory of Computation

AISSCE, CBSE, 97.4%
Lakshmipat Singhania Academy
04/2013   *Kolkata, India*

AISSE, CBSE, 10/10
Lakshmipat Singhania Academy
04/2011   *Kolkata, India*

TECHNICAL SKILLS

C · C++ · Python · Node.js · Go · HTML · CSS · JavaScript · Angular JS · SQL · Flask · Django · MongoDB · Hadoop · Git · Linux · Bash

ACADEMIC ACHIEVEMENTS

Merit Scholarship for being among top 1% in my class at VIT (2014 - 17)

Merit Certificate for being among top 0.1% in Computer Science, AISSCE (2013)

Gold Medalist, Individual Round, International Young Mathematicians' Convention (2012)

1st Runners Up, Group Round, IYMC (2012)

Runners Up, Asian Regional Space Settlement Design Competition (2011)

Merit Certificate for achieving A1 grade in all subjects, AISSE (2011)

PROJECTS

Hybrid Multiple Face Detection and Recognition (2017)

- Led team of 3 to develop an optimal hybrid algorithm for face recognition without reducing accuracy
- Presented solution at International Conference on Advances in Computing 2017

VITacademics (2015 – 2017)

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

Smart Watering System (2015)

- Led team of 3 to conceptualize & develop the system using Azure technologies & 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
- Classified tumors as malignant/benign based on available attributes

POSITIONS OF RESPONSIBILITY

Oraganizer, graVITas (2016)

- Led team of 10 to develop & maintain the website and 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 – 2016)

- Recruited, managed and trained 25 new members into the chapter
- Developed an online portal to enable paperless recruitments for the chapter
- Led team of 5 to design and build the UI & UX of the chapter website
- Organized events, seminars & workshops on computing technologies attended by 100+ students