Abhilash Venkatesh

📞 +91 94890 19049   in abhilashvenkatesh   ✉ abhilash.venky@gmail.com   🌐 abhilash-venkatesh.github.io

EDUCATION

Bachelor of Technology, Computer Science & Engineering
CGPA : 9.51/10, First Class with Distinction
Amrita School of Engineering, Amrita Vishwa Vidyapeetham
📅 Jun 2016 – Jun 2020   📍 Coimbatore, India
✳ Higher Sec. Education: 95.8% - Topper of the District
✳ Secondary Education: CGPA 10/10 - Topper of the District

EXPERIENCE

**Security Consulting Engineer | Lead, Security Research &
Innovation Framework**
Cisco Systems Inc.
📅 Aug 2020 – Present (1 yr, 4 mos)   📍 Bangalore, India
- Secured large-scale campus and data-center networks with advanced network security technologies

Technical Undergraduate Intern — Network Security
Cisco Systems Inc.
📅 Jan – Jun 2020 (6 mos)   📍 Bangalore, India
- Developed firewall migration validation software & studied IPS/firewall implementation essentials

Information Technology Intern
Kalycito Infotech Pvt. Ltd.
📅 Apr – May 2019 (2 mos)   📍 Coimbatore, India
- Evaluated enterprise-grade frameworks for cloud-based device & application management

Undergraduate Student Researcher
Cognizant Innovation Laboratory at Amrita School of Engineering
📅 Jul 2018 – Dec 2018 (6 mos)   📍 Coimbatore, India
- Researched applications of computer vision in conjunction with wearable smart hardware

Undergraduate Student Researcher
Amrita Multidimensional Data Analytics Laboratory at Amrita School of Engineering
📅 Jun 2017 – Jun 2018 (1 yr)   📍 Coimbatore, India
- Researched applications of indoor localization using Bluetooth beacons

CERTIFICATIONS

- Cisco Certified Specialist in Security Core (Nov 2021)
- Cisco Certified in Cybersecurity Essentials (Nov 2021)
- Cisco Certified Network Associate (Jun 2020)
- Cisco Certified DevNet Associate (Jun 2020)
- AWS Certified Cloud Practitioner (Oct 2018)

TECHNICAL SKILLS

- **Areas of Interest:** Computer Networking, Network & Information Security, Software Development
- **Technologies:** IPS/IDS, Firewall, Email/Web/DNS Security, Network Access Control, Endpoint Protection, Routing, Switching, Application Development/Deployment, Cloud Computing
- **Languages, Frameworks, and Tools:** Python, C++, Java, JavaScript, SQL, MongoDB, Django, Flask, Git, Kubernetes, Splunk

CONFERENCES ATTENDED

International Conference on Software-Defined Networking
📅 Aug 2019   ➤ Anna University, Chennai, India

MEMBERSHIPS

✳ Cisco Networking Academy - Certifications in Systems/Networking
✳ AWS Academy - Certifications in Cloud Computing
✳ Computer Society of India (CSI)
✳ Amrita Center for Entrepreneurship (ACE)
✳ Cisco Developer Network (DevNet)
✳ ASCII (Computer Science Club at Amrita)

PUBLICATIONS

(i) Conference Proceedings

- **V. Abhilash**, *Dr. N. Radhika, K.S. Niranjan Kumar, Phanindra Meduri, Nikhil Chandra Sai Ram*., Dynamic Bandwidth Allocation in an SDN Environment Using QoS Queues and Open Flow. In Proceedings of the 2nd International Conference on Recent Trends in Engineering and Scientific Tech., Mar 2020, IEEE
- **V. Abhilash**, *S. Aswin*., Smart Eye - Wearable smart hardware for the visually impaired. In Proceedings of the 8th Project Innovation Contest (A sister concern activity of 15th International Conference on Distributed Computing and Intelligent Technology), Jan 2019

PATENTS

- **V. Abhilash.**, Method to securely control (SSH) equipment (within highly restricted networks) for gathering extensive troubleshooting data at scale using two existing secure protocols, namely, HTTPS and SSH – Accepted by Cisco India Patent Advisory Board, Computing Systems Patentathon, Jun 2021

PROJECTS

- ***Automated Attendance Tracking System.*,** – Developed using *Estimote* location and proximity sensors (Jun 2017 – Jun 2018)
- ***Smart Indoor Lighting System.*,** – IoT system to efficiently control indoor lighting and fan speed based on ambient human activity and room temperature using *Arduino UNO, Node MCU, and DHT11* sensors. (Jun 2019 – Dec 2019)
- ***The Cisco ISE Upgrade Assistance Tool.*,** – Software to automate the upgrade of the Cisco Identity Services Engine. Deployed in 100+ networks worldwide and saved 1000+ hours of manual effort. Funded by Cisco CX Centers Innovation Office. (Sep 2020 – Present)

AWARDS & HONOURS

- ***Best Research Paper*** at the 2nd International Conference on Recent Trends in Engineering and Scientific Technology, 2020.
- ***National Level Finalist*** in the Bits & Bytes Hackathon 2018 for designing a wearable smart headgear with computer vision capabilities.
- ***Winner – Cisco HackFest 2020 Global Hackathon*** for designing and developing a robust internship management solution called "The CX Intern App".
- ***Star Performer of the 2020 Internship*** – Cisco CX, among a cohort of over 200 interns.
- ***Best of We - Global Community Hero*** – awarded by the Executive Vice President & COO of Cisco for outstanding contributions in alignment with Cisco's core vision and values during the COVID-19 pandemic.
- ***13+ Cash Awards*** – awarded by Cisco within the first year of employment for distinguished contributions (innovation and automation).

LEADERSHIP

(i) During UG

- ***President*** – Raagasudha Music Club at Amrita Vishwa Vidyapeetham (2019-20).
- ***Vice-President*** – Raagasudha Music Club at Amrita Vishwa Vidyapeetham (2018-19).
- ***Event Organizer*** – Anokha Annual Tech Fest at Amrita Vishwa Vidyapeetham (2017-20).

(ii) During School

- School Captain (2015-16), School Vice-Captain (2013-15), School Band Leader

VOLUNTEER EXPERIENCE

- ***Cisco COVID-19 Frontline Volunteer*** – I developed a software application that helps people impacted by the pandemic reach reliable disaster relief resources instantaneously.
- ***Volunteer at Giftabled*** – I help visually impaired children learn by contributing several audiobooks to the "Digital Library for the Blind" – https://library.giftabled.org/
- ***Cancer-Therapy Musician*** – Performed musical healing therapy for cancer patients at the cancer ward in KMCH Hospital, Coimbatore, India.

EXTRACURRICULAR

Independent music artist with original music published on all music streaming platforms – 🎵 https://bit.ly/abhilash_music