# Aman Sarkar

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## PROFESSIONAL SUMMARY

I have a Bachelor of Engineering degree in Computer Science with more than two years of overall experience as a consulting engineer at Cisco, using technical know-how to improve network performance and boost the team and company growth. Also, have good knowledge and experience in the development area and bring a proven track record in designing, implementing, and maintaining scalable web applications.

## WORK EXPERIENCE

**Consulting Engineer (PS - Security)**                                      Aug 2022 - Present
Cisco | Bangalore, India

- Worked with a team of 3 developers to further enhance PLAYLAB, resulting in a 50% faster lab scheduling and deployment process.
- Utilized technologies such as Django, Python, EVE-NG, Postgres, Celery, Docker, and Kubernetes to streamline lab setup, reducing manual intervention by 70%.
- Achieved an 80% reduction in cloud access approval time by seamlessly integrating AWS, GCP, and Azure services, streamlining approval processes to a minimum on the same platform PLAYLAB.
- Co-developed ISE POLICY OPTIMISER, a tool aimed at optimizing policy redundancy and rearranging policy sets, reducing human effort by nearly 20 times.
- Utilized Python and ISE API for scripting and Ansible for automation to streamline policy optimization and rearrangement, and generated Customer-specific fine-tuned policy elements report.
- Participated as one of the finalists in the Cisco Bridge-a-thon event with the project "ISE Policy Optimizer," which was selected for participation, collaborating with a team of four members.
- Actively engaged with potential customers as the lead engineer, providing technical guidance and support on FTD (Firewall) issues like upgradation and migrations to drive customer success which increased product (FTD) adoption by over 35%.
- Leveraged routing and switching expertise while collaborating with Bank of America as a Cisco client to enhance their network architecture, optimizing connectivity across servers and sites.

**Technical Undergraduate Intern**                                      Feb 2022 - July 2022
Cisco | Bangalore, India

- Co-developed PLAYLAB, a SaaS lab provisioning web platform that allows for virtual lab services to be made available on demand for various pre-configured networking topologies that include switches, routers, FTD, ISE, and monitors.
- Developed Python scripting and API-testing features, and leveraged Django elements, Python, and Postman to streamline processes.
- Acquired extensive knowledge and successfully earned certification in both Cisco DevNet and CCNA, showcasing expertise in developer-oriented networking technologies as well as fundamental networking concepts and protocols.
- Collaborated effectively within cross-functional teams to achieve project milestones and deliver optimal solutions, fostering a culture of teamwork and collective success.

## SKILLS

Python | C++ | Data Structure | Algorithm | Routing | Switching | FTD | ISE | HTML | CSS | Bootstrap | JavaScript | TypeScript | JQuery | Express.js | React.js | MongoDB | Node.js | RestAPI | Postman | Django | GitHub | Automation | Machine Learning | Deep Learning | Docker | Kubernetes | AWS | DevNet | CCNA | Ansible | Documentation | Communication | Problem Solving | Adaptability | Leadership | Teamwork

## PROJECTS

**IMAGE SUPER-RESOLUTION**
- We developed a Super-Resolution Generative Adversarial Network (SRGAN) project for image enhancement using CNN as a deep learning method for a college 3rd-year Mini Project.
- Integrated perceptual loss functions and adversarial loss components were utilized to ensure that generated images closely resemble real high-resolution images, resulting in significant improvements in image resolution.

**SEVERENESS OF DISEASE PREDICTION MODEL**
- We developed a model to predict the severity of diseases using deep learning techniques to analyze medical data and predict disease severity levels as a college 4th-year Major project.
- Used statistical data for diabetes and heart condition severity assessment, used convolutional neural networks (CNNs) for lung and skin cancer severity detection from medical images, and utilized symptom-based inputs for disease prediction.

## EDUCATION

**Bachelor of Engineering  (B.E.)** – *Computer Science*                    Aug 2018 – June 2022
Siddaganga Institute of Technology, Tumkur (India)                                 8.88 CGPA
**Intermediate (Senior Secondary School)**                        April 2015 – March 2017
Scottish Public School, Katihar (India)                                               88.2%

**Matriculation (Secondary School)**                              April 2005 – March 2015
Scottish Public School, Katihar (India)                                              10 CGPA

## CERTIFICATIONS

**Cisco Certified Devnet Associate (DevNet)**                              [View Credentials](#)
**Cisco Certified Network Associate (CCNA)**                               [View Credentials](#)
**Full Stack Web Development (MERN)**                                       [View Credentials](#)

## ACTIVITIES

- **BRIDGE-A-THON CISCO 2023 –** Finalist in Bridge-a-thon Cisco 2023 and was a developer in the team to develop the ISE POLICY OPTIMISER tool.
- **HACKELITE 2019 –** Participated in 36 hours of HACKATHON in JSS college in Mysore as final 12 Team (Team of 4)
- **CULTURAL EVENT –** An active volunteer in HALCYON, managed the college cultural fest and was the designing and crafting lead in the team.