**NIRANJAN MADHAVAN D**

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### EXPERIENCE

### Site Reliability Engineer - Cisco India Pvt. Ltd., Bangalore, India (Remote)

### Infoblox DNS-Integration- Feb ‘22-present

### Modernized the IP Address Management (IPAM) solution, which had been in use for two decades by migrating it to the modern Infoblox (TPS).

### Integrated the new solution with ESP (ServiceNow) and CyberArk to eliminate any Single Point of Failure (SPOF) and enhance the overall security and maintenance of the system.

### Learnings: Python, UNIX, Perl, DNS, Logging, Code Reviews, Docker, System Design, Splunk, CI/CD, UAT.

### Metrics, Visualization and KPIs- Aug ‘21-Jan ‘22

### Designed and developed dashboards that monitored service KPIs, aligning with business requirements to facilitate productive review meetings and progress tracking.

### Created visually compelling dashboards that provided real-time insights and actionable information that enabled data-driven decision-making.

### Learnings: Grafana, Observability, Data Storytelling, Writing runbooks

### Automation Powerhouse (Intern)- Feb ‘21-Jun ‘21

### Improved the front-end of a centralized vulnerability management system (IVAN) enabling faster resolution, clear SLAs.

### Learnings: Angular, MEAN stack, Bug Fixing, Unit & Integration Testing.

### Research Assistant - MIT Manipal, India

### Software Defined Networks (SDN) -Security Jan ‘20- Jul ‘21

### Implemented a Statistical Intrusion Detection Algorithm to detect anomalous network traffic, especially DDoS attacks.

### Introduced the algorithm using DPDK enabled Open vSwitch connected to the SDN controller.

### Summer Intern - Mobius Knowledge Services Pvt. Ltd. Chennai, India

### Machine Learning Division May ‘19-Jul ‘19

### Automated and sped up Lead Generation process by implementing Machine Learning algorithms using Python.

### Learnings: Neural Networks, Image Processing, Natural Language Processing

### Project Intern – Dept. of CSE, IIITDM Kanchipuram,India

### Internet of Things Dec ‘18

### Formulated a cheap and efficient Water Quality Monitoring System using Arduino and sensors.

**SKILLS & INTERESTS**

* **Programming Languages:** Python, SQL, C/C++, Perl, JAVA, JavaScript.
* **Technologies/Tools:** Docker, Angular, CI/CD, Ansible, Grafana, [Splunk](https://www.linkedin.com/learning/certificates/94d3f7e7ca4aa7e31128b12fc82285348d70ac3c9acf080f9a57c3a21d6a966a?u=26890602), APIs, Postman, Git, Linux, DPDK.
* **Concepts:** Network Automation, Observability, Front-end devp, Machine Learning, Neural Networks.
* **Soft skills:** Googling**,** Inquisitive, Collaborative, Persistent, Fresh Perspective.

### PROFESSIONAL TRAINING

### Coursera, Udemy, Cisco

### [Cisco Certified Devnet Associate](https://www.credly.com/badges/348ed410-3ceb-418c-bd02-b17d28ccabef)

### [Git Essentials: Learn Git with Bitbucket and Sourcetree](https://udemy-certificate.s3.amazonaws.com/pdf/UC-ed4d9ba2-e423-4d57-8471-dc99740eb1cc.pdf)

### [Data Storytelling for Business](https://certificate.storyiq.com/en/verify/45184900319970)

### [DeepLearning.AI TensorFlow Developer Specialization](https://www.coursera.org/account/accomplishments/specialization/certificate/WXUJCJCLFA6K)

### [Big Data Specialization](https://www.coursera.org/account/accomplishments/specialization/JD3E4T3ZVYME)

**EDUCATION**

**Manipal Institute of Technology, MAHE** Manipal, India

* Bachelor of Technology in Computer and Communication Engineering. **CGPA-8.5** Aug ‘21
* Coursework**:** Data Structures and Algorithms, Networks, Database, OS, OOPS, Big Data, Cyber Security, IoT.

### LEADERSHIP & ACTIVITIES

### Core Committee Member: Research Head, Cryptonite, Manipal.

### Management Committee Member: Sponsorship and Hospitality @ Leaders of Tomorrow, HR @ ISTE.

### Organizing Committee Member: Acumen, TechTatva‘18, the National Technical Festival of MIT.