**NIRANJAN MADHAVAN D**

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### EXPERIENCE

### Site Reliability Engineer II – Cisco Systems (India) Private Limited Bangalore, India

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

### Spearheaded the modernization of a two-decade-old IP Address Management (IPAM) solution by migrating it to the cutting-edge Infoblox (TPS) platform boosting system security, accountability, and maintenance.

### Designed and deployed an efficient event-driven DNS backend system, leveraging local caching to process the DNS events.

### Bridged the data gaps during the migration of over 3.5 million records ensuring data synchronization.

### Automated the incident resolution process for a pattern, resulting in 80% reduction in Mean Time to Resolve (MTTR).

### Resolved a root-cause authorization problem, leading to a 50% reduction in incidents.

### Implemented traffic monitoring and alerting system via Splunk Dashboards resulting in proactive issue detection and resolution.

### Devised and implemented Runbooks to efficiently delegate incidents to other teams, streamlining the incident management process.

### Learned: Python, Perl, ServiceNow, Distributed Systems, Kubernetes, Linux, DNS, DHCP, Logging, SQL, Splunk, CI/CD.

### Site Reliability Engineer I – Cisco Systems (India) Private Limited Bangalore, India

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

### Developed visually compelling KPI dashboards aligned with business requirements empowering users with data-driven decision-making using real-time insights and actionable information.

### Initiated and drove end-to-end data pipeline, culminating in dynamic dashboards that enabled high-level monitoring of a critical initiative to reduce network ACLs.

### Learned: Grafana, Kafka, Observability, Data Storytelling.

### Site Reliability Engineer Full-Time Intern – Cisco Systems (India) Private Limited Bangalore, India

### Automation Powerhouse- Feb ‘21-Jun ‘21

### Revamped the front-end of a centralized vulnerability management system to expedite issue resolution and establish transparent Service Level Agreements (SLAs).

### Learned: Angular, MongoDB, MEAN stack, Test driven development.

### Research Assistant – Manipal Institute of Technology Manipal, India

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

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

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

### Learned: Networks, Docker, Statistical analysis.

### Intern - Mobius Knowledge Services Chennai, India

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

### Accelerated lead generation process by implementing an end-to-end machine learning pipeline to automatically generate leads from webpage inputs, resulting in a 60% increase in efficiency over previous manual methods.

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

### Intern – Indian Institute of Information Technology, Design and Manufacturing Kancheepuram, India

### Internet of Things Dec ‘18

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

### AWARDS AND RECOGNITION

### Received Amaze 2 award for ‘Driving the highest level of achievement’ in recognition of my contribution to the successful Infoblox migration project.

**SKILLS & INTERESTS**

* **Programming Languages:** Python, SQL, Go, Perl, C/C++, Java, JavaScript.
* **Technologies/Tools:** Angular, Docker, Kubernetes, Jenkins, Gitlab, Ansible, Terraform, GCP, [Splunk](https://www.linkedin.com/learning/certificates/94d3f7e7ca4aa7e31128b12fc82285348d70ac3c9acf080f9a57c3a21d6a966a?u=26890602), Prometheus, Grafana, [Git](https://udemy-certificate.s3.amazonaws.com/pdf/UC-ed4d9ba2-e423-4d57-8471-dc99740eb1cc.pdf), Linux.
* **Core skills:** Site Reliability Engineering, Network Automation, Observability

### PROFESSIONAL TRAINING

### Cisco, Coursera

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

### [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 Management, OS, OOP, Big Data, Cyber Security.

### LEADERSHIP & ACTIVITIES

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