NIRANJAN MADHAVAN DINDUKURTHU

niranjan.madhavan.d@gmail.com • +91 8056060798 • LinkedIn:Niranjan Madhavan D • GitHub:immadhavv

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, UNIX, 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, C/C++, Perl, Java, JavaScript.
- **Technologies/Tools:** Docker, Kubernetes, Angular, Splunk, ServiceNow, CI/CD, Ansible, Grafana, API's, Git, Linux, DPDK.
- **Core skills:** Network Automation, Observability, Front-end development, Machine Learning, Neural Networks.

PROFESSIONAL TRAINING

Cisco, Coursera, Udemy
- Cisco Certified Devnet Associate
- Data Storytelling for Business
- DeepLearning.AI TensorFlow Developer Specialization
- Big Data Specialization

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.