NIRANJAN MADHAVAN D

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EXPERIENCE

Site Reliability Engineer II – Cisco   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, UNIX, Perl, DNS, Logging, SQL, Splunk, CI/CD, Code Reviews.

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.

Automation Powerhouse (Intern)-   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, MEAN stack, Test driven development.

Research Assistant - MIT   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 – IIIT   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, Kubernetes, Angular, Splunk, CI/CD, Ansible, Grafana, Postman, Git, Linux, DPDK.
- **Core skills:** Network Automation, Observability, Front-end development, Machine Learning, Neural Networks.
- **Soft skills:** Googling, Inquisitive, Collaborative, Persistent, Fresh Perspective.

PROFESSIONAL TRAINING

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

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.

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.
- Management Committee Member: Acumen, TechTatva, the National Technical Festival of MIT.