## Praveen Sadanandan

# Software Engineer Senior Staff - Full stack (Backend heavy)| Microservice | CI/CD | Database | AI/ML | Networking

🔀 praveen.sadanandan@gmail.com 📞 +91-9880992270

• H-105, Bren Trillium, Doddanagamangala Main Road, Naganathapura, Bengaluru - 560100.

\kappa Website in LinkedIn 🕓 WhatsApp 🕢 Telegram

Software Engineer Senior Staff at Juniper Networks with experience in backend application development, microservices, CI/CD, AI/ML, databases and network automation.

### Professional Experience

### Juniper Networks 🛮

Mar 2010 – present Bengaluru, India Software Engineer Senior Staff

- Experience developing backend applications capable of processing terabyte datta and serving analytics.
- Application development experience using **Python, NodeJS, Javascript,** database like **PostgreSQL, MongoDB, Cassandra**.
- Experience in setting up stateful and stateless applications, services, ingress controllers with Kubernetes and Docker images, including sharded MongoDB replica sets, Apache Kafka broker cluster, Redis as in-memory cache, Apache Airflow orchestrator, Nginx server and controllers, Apache Spark on Kubernetes with CI/CD of micro services through Gitlab.
- Created asset tracking application to scan and track usage of all network devices / components like routers, switches, traffic generators in the network labs covering multiple platforms running different operating system. This application helped in reducing huge costs incurred by the organization by utilizing devices that are not optimally used
- Experience developing machine learning models with big data and fine tuning large language models (LLM) like BERT, building pipelines for clustering and classification tasks with natural language processing (NLP). This helped boost productivity of engineers by helping them identify failures in very large log files quickly.
- Developed application to provide engineering, product management and support teams with insights / analytics into products, platforms, releases, features used by customers by leveraging big data in silos with ETL data pipelines to provide customer centric view to the teams.
- Experience in multiple full system implementation life cycles analyze, design, build, test, deploy, support.
- Built automated scaling and performance tests for network devices with traffic generator like IXIA and Spirent.

- Experience in leading teams and interacting with other cross functional and cross-geography projects.
- Received multiple recognitions from organization for my contributions.

### IXIA Technologies 🛮

### Feb 2006 - Mar 2010

### Bengaluru, India

### Lead Engineer

- Experience in interacting with multiple customers across geo as part of providing professional services.
- Built customized solutions based on customer requirements that works seamlessly in customers' environment/infrastructure.
- Handled customer demos, evaluation support & training on product automation to win sales. Provided solutions to number of post-sales code support queries and professional services requests from different customers both onsite and offsite.
- Experience in networking protocols, IXIA network traffic generator applications, and automation.
- Automation experience with TCL, Expect, Perl and IXIA network traffic generator APIs.
- Gained multiple customer appreciation for my contributions.

### Wipro Technologies 🛮

### Mar 2004 - Feb 2006

Hyderabad, India

### Project Engineer

- Experience in networking protocols and feature test automation.
- Automated multiple security feature tests for firewall products.
- Built libraries to help with crafting packets with anomalies and infected payload to test **firewall**.
- Automated application traffic generation like **SMTP**, **HTTP**, **TELNET**, **FTP**, etc between endpoints to test firewall features.
- Automation experience with TCL, Expect.
- Received recognition for my contributions.

### HCL Technologies 🛮

### Jul 2003 - Feb 2004

### Chennai, India

### Professional Practice

- Involved in telecom customer's application testing where number of bugs were identified and reported by me.
- Fixed minor application issues in C++ and Java code base.

### Skills

### Languages

- Python
- Javascript
- Typescript
- Java
- C++
- Perl
- TCL
- Expect

Microservices

- Kubernetes
- Docker

### **Version Control**

- Git
- Gitlab with CI/CD
- SVN
- CVS

### **Databases**

- MongoDB
- PostgreSQL
- MySQL
- Cassandra
- Elasticsearch
- Neo4j
- Redis
- Snowflake

### Web

- Javascript
- Node
- React
- HTML
- CSS
- Apache
- Nginx
- SimpleSAML
- REST

### Machine Learning

- Scikit Learn
- Hugging Face
- Spark ML

### Distributed systems

- System design
- Databases
- Apache Airflow
- Apache Kafka
- Apache Spark

### Libraries/Runtime Environment

- Fast API
- Flask
- Express.js
- Mongoose
- Numpy
- Pandas
- Pyspark
- Node.js
- React.js

### **Tools**

- JIRA
- Gnats
- Visual Studio Code
- Pycharm
- Jupyter notebook
- Compass
- Postico
- Kibana
- TablePlus

### Networking

- Juniper routers/switches
- IXIA
- Spirent
- L2/L3 Protocols

### Awards

### **Juniper Networks**

- Juniper Networks Business Amp Award
- Juniper Networks CEO Team Excellence Award
- Juniper Networks Test Engineering Award
- Juniper Networks Department Spotlight Award In My Group 3 times
- Juniper Networks Department Spotlight Award Outside My Group 3 times

### Wipro Technologies

• Wipro Technologies Feather In My Cap Award

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Sep 1999 - Apr 2003

Bachelor of Engineering in Computer Science,

Sathyabama Engineering College (University of Madras)

Chennai, India