

# Neil Prabhu

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A Software Engineer with 6 years of professional hands-on experience in backend development and machine learning, especially in large-scale, DevOps systems.

## SKILLS

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**Programming Languages:** Python, C/C++, Ruby, Javascript/Node.js

**Database Management:** Relational and NoSQL databases

**Design Principles:** Object-oriented design, REST API design, Testing Frameworks (pytest/gtest)

**Software Architecture:** Flask, AWS, Azure, Micro-services architecture, ELK, PySpark, PyTorch, Airflow, MLflow, Databricks, Snowflake

## EXPERIENCE

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### Software Engineer III, Juniper Networks

Apr 2022 - Present

- Successfully implemented a Generative AI (ChatGPT like) platform for employees to use, increasing overall productivity of 3,000+ engineers.
- Wrote and Integrated ReviewBot, a bot using RAG (Retrieval-Augmented Generation) and LLMs (Large Language Models) to improve the quality of code reviews for commits to Juniper's Operating Systems (JunOS and EVO), impacting over 2,000 software developers.
- Developed on-premise RAG pipeline to ingest internal team documents to supplement LLM responses for questions on documents from HR, marketing, and engineering.
- Redesigned back-end code coverage repository, reducing complexity of code base and runtime for developers by over 50%.
- Architected and deployed robust CI/CD pipelines for internal tooling repositories, streamlining automated testing, containerization, and multi-stage deployments (testing, staging, production) on Kubernetes.
- Enabled faster, more reliable service rollouts, reducing manual intervention and deployment time by 30%.
- Migrated from NoSQL (Mongo) to relational database (Postgres), improving data handling and following company security standards.

### Cloud Data Warehouse Engineer, Snowflake

Aug 2021 - Apr 2022

- Triage Customer Support Tickets by resolving query runtime errors and warehouse issues
- Analyzed and optimized customer queries for performance, using warehouses, lambda functions, views, and clustering techniques to improve query response times by an average of 40% (SnowPro Certified)
- Supported Customers in setting up data pipelines from Cloud Providers to Snowflake (snow CLI & snow-pipe)

### Software Engineer II, Juniper Networks

Jun 2018 - Jun 2021

- Built log monitoring service using ELK for internal teams, reducing VM downtime by 30% and debugging by 25%
- Developed a Machine Learning Model to predict build compilation time increasing overall developer productivity
- Contributed to Build as a Service, an on-premise developer platform using Kubernetes, reducing VM costs and deployment time by 50%

## EDUCATION

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**M.S. Data Science, University of California, Berkeley**

2021 – 2023

**B.S. Computer Science, Santa Clara University**

2016 – 2018

## LEADERSHIP

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### Team Lead & Mentor, Juniper Networks

Jun 2022 - Present

- Team lead on backend development, design projects, and support of internal customers of code-coverage tool
- During summers of 2022, 2023, and 2024, I mentored interns to complete assigned summer projects