

Neil Prabhu

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SKILLS

Programming Languages: Python, Golang, Ruby, JavaScript - (Svelte.js & Typescript), HTML, CSS

Database Management: Relational and NoSQL databases

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

Software Architectures: Flask/Django/FastAPI, gRPC, Micro-services, ELK (Elasticsearch, Logstash, Kibana), PySpark, PyTorch, Airflow, Databricks, Snowflake, Cloud Services (AWS & Azure)

EXPERIENCE

Juniper Networks

Sunnyvale, CA

Software Engineer

April 2022 - Present

- Integrated a Generative AI platform for Juniper Employees, boosting productivity for **3,000+** employees.
- Built a Python-based “ReviewBot” (RAG + LLM) to improve code reviews for **1,500+** developers
- Refactored backend from Perl to Python, reducing complexity and runtime by **50%**.
- Redesigned backend (**8+** applications) with gRPC on Kubernetes, reducing resource usage and costs by **30%** while cutting inter-service latency by **30%**.
- Enabled faster, more reliable service rollouts, reducing manual intervention and deployment time by **20%**.
- Migrated from NoSQL (Mongo) to relational database (Postgres), improving data handling and following company security standards.
- Ported the code coverage team's FT workflow from Perl to Golang, speeding up processing for **hundreds** of GB of data by **60%** and unblocking users dependent on coverage metrics.

Snowflake

San Mateo, CA

Cloud Engineer

August 2021 - April 2022

- Resolved Customer Support Tickets: Handled **50+** tickets monthly, diagnosing query runtime errors and warehouse issues—cutting escalation to tier-1 support by **35%**.
- Optimized Database Performance: Analyzed and tuned customer queries (warehouses, lambda functions, clustering) - SnowPro Certified.
- Built Cloud-to-Snowflake Pipelines: Supported **20+** enterprise clients in creating resilient data pipelines from Azure, GCP, and AWS to Snowflake.

Juniper Networks

Sunnyvale, CA

Software Engineer

June 2018 – Jun 2021

- Built Log Monitoring (ELK): Implemented a centralized log monitoring service for internal teams, reducing VM downtime by **30%** and speeding up debugging by **25%**.
- Deployed an ML Model (Python/FastAPI): Developed a regression model to estimate build compile times, cutting average wait time by **20%** and boosting developer productivity.
- Contributed to “Build as a Service” (Kubernetes): Reduced VM costs by **40%** and deployment times by **50%** through automation in an on-prem platform written in Python.

EDUCATION

University of California, Berkeley

Berkeley, CA

M.S Data Science

Graduation Date: Dec 2023

Santa Clara University

Santa Clara, CA

B.S. Computer Science

Graduation Date: Jun 2018

LEADERSHIP

Juniper Networks

Sunnyvale, CA

Team Lead & Mentor

June 2022 - Present

- Leading a team of 5 engineers - software development, design of projects, and support of customers
- Expanding over summers of 2022, 2023, and 2024, I mentored interns to complete assigned summer projects.