

Pavan Kumar Nuthi

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EDUCATION

University of California, Davis

Master of Science in Computer Science

Relevant Coursework: Machine learning and Discovery, Distributed Database Systems, Software Engineering

September 2025 – June 2027

CGPA: 4 / 4

PES University

Bachelor of Technology in Computer Science and Engineering

Relevant Coursework: Data Structures, Design and Analysis of Algorithms, Operating Systems, Computer Networks

December 2020 – May 2024

CGPA: 9.43 / 10.0

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, Go

Tools & Technologies: React, Node.js, Spring, Angular, Django, Flask, Vue, Cloud Computing (AWS, Azure, GCP), Docker, Kubernetes (K8s), Terraform, Ansible, Jenkins, MySQL, NoSQL (MongoDB), DynamoDB, Redis, Elasticsearch, Kafka, RabbitMQ, Okta, JWT Authentication, Session Management, Git, Unix, Linux, Grafana

WORK EXPERIENCE

Athenahealth

Associate Member of Technical Staff

January 2025 – August 2025

Bengaluru, India

- Enhanced system security and reduced attack surfaces by implementing a password cleanup in Oracle databases.
- Automated user provisioning by developing workflows that integrated external hospital IdPs, reducing manual onboarding time for thousands of healthcare professionals by over 80%.
- Engineered a backend user migration service to transition accounts from Athenahealth's application to Okta, enabling secure and centralized identity management.

Sprinklr

Associate Devops Engineer

August 2024 – December 2024

Bengaluru, India

- Automated Elasticsearch infrastructure setup using Ansible, improving deployment speed by over 90%.
- Designed and implemented self-healing scripts for monitoring Elasticsearch server health.
- Reduced the Recovery Time Objective (RTO) by over 90% by automating the entire disaster recovery process with Ansible playbooks, which minimized manual intervention.

Sprinklr

Devops Intern

January 2024 – June 2024

Bengaluru, India

- Reduced the Recovery Point Objective (RPO) to under 2 hours by designing and implementing disaster recovery solutions using Python scripts, Elasticsearch, MongoDB, and AWS for near real-time data replication.
- Modernized the codebase by refactoring legacy Perl scripts into Python to improve performance and long-term maintainability.

PROJECTS

Mini Kafka

 | Python, Socket Programming, Custom Message Data Structure

- Architected and built a messaging system from scratch in Python, simulating Apache Kafka's core producer, broker, and consumer architecture using socket programming.
- Designed a durable, file-system-based storage engine where topics and partitions were structured as directories and subdirectories, with each producer message persisted as an individual text file.
- Engineered the consumer functionality, allowing consumers to subscribe to multiple topics and track their progress independently with a dedicated offset for data served from the file system.

Real Time Crypto Currency Application

 | Spark, Kafka, Node.js, Typescript, Tailwind css

- Ingested real-time price data for cryptocurrencies, including Bitcoin and Dogecoin, by establishing a connection with the Coinbase API.
- Performed real-time analysis on a live data stream using the Spark framework, channeling processed data into a SQL database for subsequent batch processing.
- Engineered a data pipeline using a Kafka-integrated Node.js server to stream processed data to a React frontend for real-time graphical visualization.