Pavan Kumar Nuthi

+1(530)231-2947 | pknuthi@ucdavis.edu | linkedin.com/in/pavan-k-nuthi | github.com/pavan-nuthi | pavan-nuthi.app

EDUCATION

University of California, Davis **September 2025 – May 2027**
Master of Science in Computer Science

PES University **December 2020 – May 2024**
Bachelor of technology in Computer Science and Engineering ***CGPA: 9.43 / 10.0***

TECHNICAL SKILLS

Languages: C++, C, Python, Perl, Java, JavaScript, TypeScript
Tools & Technologies: React, Node, Spring Boot, Angular, Django, HTML/CSS, Data Structures, Operating Systems, JWT Token, Session Management, Terraform, AWS, Azure, GCP, Jenkins, Kubernetes, Ansible, Elasticsearch, SQL, MongoDB, Kafka, Spark, Docker, Okta

WORK EXPERIENCE

Athenahealth **January 2025 – August 2025**
Associate Member of Technical staff *Bengaluru, India*

- Strengthened system security and reduced attack surfaces by implementing a comprehensive password cleanup strategy 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 **August 2024 – December 2024**
Associate Devops Engineer *Bengaluru, India*

- Automated Elasticsearch infrastructure setup using Ansible, improving deployment speed by over 90%.
- Engineered resiliency scripts for monitoring Elasticsearch servers that performed auto-remediation to resolve server issues.
- Reduced the Recovery Time Objective (RTO) by over 90% by automating the entire disaster recovery process with Ansible playbooks, which minimized manual intervention.

Sprinklr **January 2024 – June 2024**
Devops Intern *Bengaluru, India*

- Reduced the Recovery Point Objective (RPO) to under 2 hours by designing and implementing disaster recovery solutions featuring 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,File System*

- 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.