Pavan Kumar Nuthi

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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, Java, JavaScript, Perl
Tools & Technologies: ReactJS, Node.js, Pandas, Numpy, Matplotlib, Docker, Springboot, Streamlit, Socket, Kubernetes, AWS, Azure, GCP, Elasticsearch, Jenkins, SQL, MongoDB, Canva, Linux, Git, Kafka, Spark, Okta

WORK EXPERIENCE

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

- Implemented a password cleanup strategy in Oracle databases, strengthening overall system security and reducing attack surfaces by 30%.
- Developed and maintained automated user provisioning workflows integrating external hospital Identity Providers (IdPs), streamlining secure onboarding for thousands of healthcare professionals and reducing manual processing time by over 80%.
- Developed the backend for a user migration service to transition user accounts from Athenahealth's application to Okta, enabling secure and centralized identity management.

Sprinklr **August 2024 – December 2024**
Associate Devops Engineer *Bengaluru, India*

- Completely automated the process of setup of infrastructure for Elasticsearch servers using Ansible and improved the speed of setup by over 90%.
- Involved in designing and creating resiliency scripts for monitoring resources deployed on Elasticsearch servers, as well as implementing auto-remediation tasks in response to any server-related issues.
- Involved in reducing the recovery time objective(RTO) by over 90% by making solutions for automating the entire process of disaster recovery by using Ansible playbooks and minimizing manual intervention.

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

- Designed and implemented disaster recovery solutions with near real-time data replication, reducing the Recovery Point Objective (RPO) to 2 hours.
- Refactored legacy code written in Perl to Python.

PROJECTS

Mini Kafka | *Python,Socket Programming,File System*

- Facilitating communication through Socket Programming for message transmission between producers and brokers.
- In this devised implementation, topics serve as meticulously organized directories, while partitions are structured as subdirectories nested within. Within these partitions, messages generated by producers are stored as individual text files.
- The data is served from files stored within topics from the file system, and consumers can subscribe to multiple topics, each consumer has a dedicated offset.

Real Time Crypto Currency Application | *Spark,Kafka,Node.js,Typescript,Tailwind css*

- Established a connection with the Coinbase API to get real-time insights into cryptocurrency prices like Bitcoin, Dogecoin, and Litecoin.
- Spark framework is used for real-time analysis of this data stream, channeling it into a SQL database for future batch processing.
- The processed dataset is then sent to a Node.js-based server with Kafka integration. The data is send to a frontend interface which simplifies raw data into graphical representations.