PADMESH NAIK

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SKILLS

Languages and Databases: Python, Java, Javascript, SQL, HTML, CSS, TypeScript, XML, MongoDB, Snowflake, Cassandra, Redshift

Frameworks and Tools: Angular, React, Node.js, Express.js, Django, Apache Spark, Jenkins, Flask, REST API, AWS, Azure, Git, Hadoop, Apache Kafka, Docker, Kubernetes, Apache Airflow, Microservices, Linux

Methodologies and Practices : Continuous Integration / Continuous Deployment (CI/CD), DevOps, Version Control, Agile, Scrum

WORK EXPERIENCE

Software Engineer   August 2024 – Present
CTP, Seventh Avenue, NY

- Developing web pages using Shopify themes, integrating plugins and custom scripts to create dynamic, interactive user interfaces.
- Building a **scalable backend system** on cloud infrastructure (AWS) to optimize performance and support global accessibility.
- Integrating AWS Lambda functions for automating database interactions, leveraging Virtual Private Cloud (VPC) networks to enhance application security, and **reducing operational costs** by optimizing resource utilization.
- Improving user experience by implementing features like product recommendations, dynamic filtering, and order tracking systems.
- Collaborating with cross-functional teams to plan products and features, **conduct code reviews**, and optimize system design.
- **Creating REST APIs,** designing database schemas, and implementing indexing strategies to enhance query performance.

System Software Engineer   September 2020 - August 2022
Tata Consultancy Services, Mumbai, India

- Built CI/CD pipelines for microservices using Jenkins, Airflow, Docker, and Kubernetes for automated deployment, real-time monitoring and scaling, minimizing operational overhead and **increasing deployment speed by 30%.**
- Developed cloud-based distributed systems with Python, Spark, REST and Snowflake for efficient data handling and scalability.
- Collaborated with the product team to gather functional requirements, performed technical analysis, and **debugged code**, ensuring the developed solutions met user expectations and quality standards.
- **Managed production environments** and resolved operational issues to **ensure uptime** and maintain system reliability.

Software Developer Intern   Jan 2024 – April 2024
Clearly Energy, Severna Park, MD

- Developed a web application with Angular and Django, featuring interactive maps and **energy policy** compliance tracking.
- Containerized the application using Docker, and built **CI/CD pipelines with Jenkins** to automate integration and deployment.
- Developed multiple features for the map including address search, filter menus, customizable map styles, and data points clustering.
- Normalized database schemas and implemented query optimization techniques, **improving the data retrieval efficiency by 12%.**

Software Engineer Intern   May 2023 - August 2023
Building Assure PBC, Concord, MA

- Led the development of a web application that streamlined alerts and responses to **real-time data** coming from IOT sensors.
- Implemented data pipelines with Python, MongoDB and AWS Lambda for serverless computing, and integrated Apache Kafka for scalable data ingestion and real-time streaming, resulting in a **25% improvement** in application performance.
- **Developed unit and acceptance tests** for API endpoints and new product features, ensuring the correctness of backend services.

Graduate Research Assistant   January 2023 – August 2024
Worcester Polytechnic Institute, Worcester, MA

- Contributed to research projects focused on **Fintech Technologies** by developing data processing systems with Java, SQL, Apache Kafka and AWS services (Lambda, Redshift, S3), streamlining data ingestion, processing, and storage of **large-scale data**.
- Developed a scalable analytics system with Hadoop and MapReduce, enabling **real-time insights** from financial datasets.

EDUCATION

Master of Science in Computer Science, GPA: 3.8/4.0   August 2022 - May 2024
Worcester Polytechnic Institute (WPI), Worcester, MA

Bachelor's in Computer Engineering; CGPI: 8.16/10   August 2016 - October 2020
University of Mumbai, Mumbai, India