

PADMESH NAIK

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SKILLS

- Python, Java (Spring Boot, JUnit), Javascript, SQL, Snowflake, Angular, React, Apache Spark, Jenkins, AWS, Azure, Git, Hadoop, Apache Kafka, Docker, Kubernetes, Apache Airflow
- Web Development, Data Warehouse/ETL, Microservices, CI/CD, DevOps, Machine Learning, Version Control, Agile, Scrum

WORK EXPERIENCE

Software Engineer

August 2024 – Present

CTP, Seventh Avenue, NY

- Building web applications with **HTML5, CSS3, and JavaScript**, and developing **REST APIs** for server-side communications.
- Developing backend systems with **AWS EC2 and Elastic Load Balancing (ELB)** to manage server resources and distribute traffic.
- Integrating **Lambda functions with AWS RDS** for automating database interactions, leveraging Virtual Private Cloud (VPC) networks to improve application security, and reducing operational costs by optimizing resource utilization.
- Implementing features like product recommendations, dynamic filtering, order tracking systems and automated email notifications.
- Collaborating with cross-functional teams to plan products and features, **perform code reviews**, and optimize system design.

System Software Engineer

September 2020 - August 2022

Tata Consultancy Services, Mumbai, India

- Developed CI/CD pipelines for microservices using **Jenkins, Airflow and Docker**, optimized container orchestration with **Kubernetes**, reducing operational overhead, and increasing deployment speed by **30%**.
- Worked with the product team to translate user stories into technical requirements for new feature development, conducted root-cause analysis on critical bugs, and implemented targeted fixes, achieving **91%** user satisfaction rate in post-release surveys.
- Designed and developed data ingestion pipelines using **Python, Apache Spark, and Snowflake** to process and transform large datasets, utilized Spark jobs for parallel processing, reducing overall data processing time from **9 hours to 3.5 hours**.

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**, reducing deployment failures by **18%**.
- Developed multiple features for the geospatial map application, including address search, filter menus, and data points clustering.
- Normalized database schemas and implemented query optimization techniques, **improving the data retrieval efficiency by 22%**.

Software Engineer Intern

May 2023 - August 2023

Building Assure PBC, Concord, MA

- Developed a real-time monitoring application using **React and Node.js** that retrieved data from IOT sensors and displayed alerts.
- Created unit and acceptance tests for API endpoints and newly implemented product features, using **Jest and Mocha**.
- Implemented data pipelines using **Python, MongoDB and AWS Lambda**, and integrated **Apache Kafka** for scalable data ingestion and real-time streaming, leading to a **25%** increase in data processing speed.

Graduate Research Assistant

January 2023 – August 2024

Worcester Polytechnic Institute, Worcester, MA

- Built backend systems for Fintech research projects with Python, SQL, and AWS services (Redshift and S3), resulting in a **20%** reduction in storage costs and enabling efficient management of over **100,000 records**.
- Developed a scalable analytics system using **Hadoop and MapReduce** to process large-scale patent data from the PATSTAT database, providing real-time insights into patent filing patterns and trends in climate change mitigation technologies.

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