

## 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, Spring, 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

- Building web applications with **HTML5, CSS3, and JavaScript**, and creating **REST APIs** to manage server-side operations.
- Developing a robust backend system with **AWS EC2 and Elastic Load Balancing (ELB)**, ensuring scalability and reliability.
- 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.
- Designing database schemas, and implementing indexing strategies to improve query performance and data retrieval.

#### System Software Engineer

September 2020 - August 2022

Tata Consultancy Services, Mumbai, India

- Developed CI/CD pipelines for microservices using **Jenkins, Airflow, Docker, and Kubernetes** for automated deployment, real-time monitoring and scaling, resulting in lower operational overhead and a **30% increase** in deployment speed.
- 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.
- Developed cloud-based distributed systems with **Python, Spark, and Snowflake**, resulting in faster data processing throughput.
- 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 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 12%**.

#### 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.
- 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, 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