

PADMESH NAIK

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WORK EXPERIENCE

Software Engineer

August 2024 – Present

Changing The Present (Non-Profit Organization), New York

- Developing web pages using Shopify themes, integrating plugins and custom scripts to create dynamic, user-focused interfaces, and building a **scalable backend system on AWS** to improve performance and support global accessibility.
- Enhancing website visibility and traffic by implementing **search engine optimization strategies**, utilizing analytics tools to monitor performance metrics, and **creating REST APIs** for secure data exchange and communication.
- Improving user experience by implementing features like product recommendations, dynamic filtering, and order tracking systems.
- Designing database schemas and configuring AWS RDS instances to optimize data management and improve query performance.
- Implementing replication and failover strategies to **maintain high availability and data consistency** across the database systems.

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** for automated integration and deployment.
- Developed multiple features for the map including address search, filter menus, customizable map styles, and data points clustering.
- Collaborated with the product team to define data requirements, performed technical analysis and **debugged code**, ensuring the developed solutions aligned with user expectations and quality standards.
- 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 and AWS Lambda for serverless processing, and integrated them with MongoDB and Apache Kafka for data management and real-time streaming, resulting in a **25% improvement** in application performance.
- Deployed monitoring systems with AWS CloudWatch, enhancing the accuracy and reliability of real-time data inputs.

System Engineer

September 2020 - August 2022

Tata Consultancy Services, Mumbai, India

- Designed and built **CI/CD pipelines for microservices** using Jenkins, Docker, and Kubernetes, enabling automated deployment, real-time monitoring, scaling, and secure inter-service communication across multiple environments.
- Developed **ETL pipelines** with Apache Airflow, Python and Snowflake, streamlining data extraction, transformation, and loading processes, significantly reducing data processing time, improving data quality, and enabling advanced analytics and reporting.

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 Spark and AWS services (Lambda, Redshift, S3), **streamlining data workflows** and improving overall efficiency.
- Developed a scalable analytics platform with Hadoop and MapReduce, enabling **real-time insights** from financial datasets.

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

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