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, creating dynamic and user-friendly experiences through integration of external apps and adding scalable functionalities to improve global reach and customer satisfaction.
- Enhancing website visibility and traffic by implementing **Search Engine Optimization strategies**, leveraging analytics tools to monitor performance metrics and **creating RESTful APIs** using AWS API Gateway for seamless data interactions.
- Improving user experience by implementing features like product recommendations, dynamic filtering, and order tracking systems.
- Designing flexible database schemas and configuring AWS RDS instances to ensure efficient data management, and implementing replication and failover strategies to **maintain high availability and data consistency**.

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

- Developed a web application using 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

- Built **ETL pipelines** using Apache Airflow, Python and Snowflake, automating data extraction, transformation, and loading processes, significantly reducing data processing time, enhancing data quality, and enabling advanced analytics and reporting.
- Developed scripts in Python and SQL to analyze **30 years** of purchase data for a **Fortune 500 company**, identified key predictors of customer behavior and implemented changes to the pricing strategy, which **improved customer retention by 15%.**

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, Apache Spark and AWS services such as Lambda functions, Redshift and 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