

## 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 maintain high availability and reliability of data across the web application.

#### Software Developer Intern

Jan 2024 – April 2024

Clearly Energy, Severna Park, MD

- Developed a scalable and interactive mapping application using Angular.js and OpenLayers for dynamic geospatial visualizations, containerized the application in Docker and built automated deployment pipelines using Jenkins (CI/CD).
- 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.
- Developed RESTful APIs and a robust Django-based data architecture, improving the data retrieval efficiency by 12%, and built scalable backend systems that supported high-volume data processing and storage.

#### 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 a Python-based data pipeline using AWS Lambda for serverless processing, integrated with MongoDB and Apache Kafka for real-time streaming and data management, resulting in a 25% improvement in application performance and scalability.
- Integrated monitoring systems using 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 Snowflake and Python, 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

- Worked on research projects focused on Fintech Technologies, implementing data pipelines using Python, Apache Spark and AWS services like Lambda functions, Redshift and S3 to enhance data processing capabilities and support advanced data analytics.
- Developed a scalable data processing system 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, Microservices, Linux

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

### EDUCATION

#### Worcester Polytechnic Institute (WPI), Worcester, MA

Master of Science in Computer Science, GPA: 3.80/4.0

August 2022 - May 2024

#### University of Mumbai, Mumbai, India

Bachelor's in Computer Engineering; CGPI: 8.16/10

August 2016 - October 2020