

PADMESH RAJARAM NAIK

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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

Skills

Languages and Databases: Python, Java, Javascript, C, C++, HTML5, CSS3, TypeScript, MongoDB, SQL, PostgreSQL, Cassandra

Frameworks and Tools: Angular, React, Node.js, Spring Boot, Spark, Kafka, REST API, AWS, Azure, Docker, Git, Microservices

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

PROFESSIONAL EXPERIENCE:

Software Developer Intern

Jan 2024 – April 2024

Clearly Energy, Severna Park, MD

- Developed an interactive mapping application using Angular.js and OpenLayers, enabling dynamic geospatial visualizations and deployed the web application using Docker.
- Collaborated with the product team to understand requirements and ensure the developed solutions aligned with user expectations.
- Implemented real-time data filtering and searching functionalities within the web mapping application, supporting complex queries like geocoded data comparisons and adaptive filter range adjustments for diverse datasets.
- Developed a flexible data architecture with Django, enabling customizable user profiles for tailored and personalized data views.

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 robust backend data validation processes and monitoring systems to ensure accuracy and reliability of data inputs.
- Enhanced application performance by 25% by implementing a Python and Pandas-based backend pipeline, enabling seamless data integration between MongoDB and the decision models.

Data Scientist

September 2020 - August 2022

Tata Consultancy Services, Mumbai, India

- Performed exploratory data analysis on 8 years of purchasing data for a Fortune 500 company using Tableau and Python, identified key predictors of customer behavior and recommended changes to the pricing strategy, resulting in improved customer retention.
- Enhanced model accuracy by 10% by incorporating additional features into the regression models, enabling more accurate delivery time predictions and improving overall operational efficiency.

Graduate Assistant

January 2023 - January 2024

Worcester Polytechnic Institute, Worcester, MA

- Collaborated on a professor-guided research initiative to develop and implement Python pipelines, utilizing Snowflake for scalable data storage and optimizing data extraction to deepen insights from diverse data sources.
- Conducted doubt-solving lectures to help students with coursework and assisted the professor in grading assignments.

PROJECTS:

Social Media API

- Built a REST API application using Django REST Framework, incorporating user profile management, user authentication, status updates, feed viewing, and deployed it on AWS using Vagrant and Oracle VirtualBox.

Google Stock Price Prediction

- Designed a predictive model using a 4-layer LSTM network with Keras and TensorFlow to forecast Google's stock prices, utilizing dropout regularization to prevent overfitting, optimizing model parameters, and visualized the results with Matplotlib.

Bookstore Web Application

- Built an online bookstore platform using React and Node.js featuring advanced search, real-time ratings, secure user registration, and a MySQL backend for managing inventory, transactions, and generating sales reports.