PADMESH NAIK

linkedin.com/padmesh-naik | 508-762-6909 | padmeshnaik22@gmail.com | github.com/padmeshnaik

SUMMARY

Software Engineer with over 3 years of experience in building web applications, scalable backend systems, and data pipelines. Proven track record of enhancing system performance and user satisfaction by delivering user-focused solutions while reducing costs.

SKILLS

- Python, Java, Javascript, SQL, Snowflake, React, Spark, Git, Hadoop, Apache Kafka, Jenkins, Docker, Kubernetes, Apache Airflow
- Web Development, Data Warehouse/ETL, Microservices, Cloud Computing, CI/CD, DevOps, Machine Learning, Version Control

EDUCATION

Master's of Science in Computer Science   August 2022 - May 2024
Worcester Polytechnic Institute (WPI), MA   *GPA: 3.8*

Bachelor's in Computer Engineering   August 2016 - October 2020
University of Mumbai, India   *CGPI: 8.16*

WORK EXPERIENCE

Software Engineer   August 2024 – Present
CTP, Seventh Avenue, NY

- Develop web applications with HTML5, CSS3, and JavaScript, and build **RESTful APIs** for user profile management and authentication.
- Deploy backend systems with AWS EC2 and configure Elastic Load Balancing (ELB) to manage server resources and distribute traffic.
- Integrate **Lambda functions with AWS RDS** to automate database interactions and utilize Virtual Private Networks to enhance security.
- Collaborate with product managers and developers to plan product features, **perform code reviews**, and optimize system design.

System Software Engineer   September 2020 - August 2022
Tata Consultancy Services, Mumbai, India

- Designed and developed data ingestion pipelines using Python, Apache Spark, and Snowflake to process and transform large datasets, utilized Spark jobs for parallel computation, reducing the overall data processing time from **9 hours to 3.5 hours.**
- Reduced build failures and enhanced deployment speed by **30%** by developing CI/CD pipelines for microservices using **Jenkins, Airflow and Docker,** optimizing container orchestration with **Kubernetes**.
- Developed an optimized feature rollout strategy incorporating **A/B testing** and real-time user feedback, enabling controlled, gradual deployment and continous monitoring, reducing critical bug occurrences by **40%** during initial releases.

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

- Built a web application with **Angular and Django**, featuring interactive maps and energy policy compliance tracking.
- Developed multiple features for the geospatial map application, including address search, dynamic filter menus, and data points clustering.
- Normalized database schemas and implemented query optimization techniques, improving the data retrieval efficiency by **22%.**

Software Engineer Intern   May 2023 - August 2023
Building Assure PBC, Concord, MA

- Developed a real-time smart home application using **React and AWS** to monitor IoT sensor data, providing instant alerts for anomalies such as unusual temperature spikes, humidity fluctuations, or security breaches.
- Built unit and acceptance tests for API endpoints and new product features using Jest and Mocha, ensuring code reliability.
- Implemented data pipelines with Python, AWS, MongoDB and **Apache Kafka** achieving a **25%** increase in data processing speed.

Graduate Research Assistant   January 2023 – August 2024
Worcester Polytechnic Institute, Worcester, MA

- Built backend systems for Fintech research projects with Python, SQL, and AWS services (Redshift and S3), resulting in a **20%** reduction in storage costs and enabling efficient management of over **100,000** transaction records.
- Developed a scalable analytics system using **Hadoop and MapReduce** to process large-scale patent data from the PATSTAT database.

ACHIEVEMENTS

- Honored with the **Elite Performer** award by Tata Consultancy Sevices for exceptional performance in completing a milestone challenge.
- Published a research paper on Image Forgery, earning a spot among the **Top Ten most downloaded** in the Imaging eJournal category.
- Served as captain of the football team and secured the runner-up position in an inter-college competition.
- Received the **Innovation Leadership** award for organizing a tech hackathon and contributing as an active member of the publicity team.