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 boosting user satisfaction by delivering user-focused solutions while reducing costs. Passionate about creating innovative and impactful solutions, with a commitment to learning and continuous improvement.

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 create **REST APIs** to manage user profiles.
- Build backend systems with AWS EC2 and Elastic Load Balancing (ELB) to manage server resources and distribute traffic.
- Integrate **Lambda functions with AWS RDS** for automating database interactions, utilizing Virtual Private Cloud (VPC) networks to improve application security, and reduce operational costs by optimizing resource utilization.
- 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

- Worked with the product team to translate user stories into technical requirements for new feature development, conducted root-cause analysis on critical bugs, and implemented targeted fixes, achieving **91%** user satisfaction rate in post-release surveys.
- 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**.
- Designed and developed data ingestion pipelines with **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.**

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.
- Developed multiple features for the geospatial map application, including address search, 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.
- Implemented data pipelines using Python, MongoDB, AWS Lambda, and integrated **Apache Kafka** for scalable data ingestion and real-time streaming, resulting in 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, providing real-time insights into patent filing patterns and trends in climate change mitigation technologies.