Sai Kiran Paturi

saipaturi99@gmail.com | +1 (716)259-6547 | Buffalo, NewYork | https://spaturi2.github.io/kiran_portfolio/
https://www.linkedin.com/in/sai-kiran-paturi/ | https://github.com/spaturi2?tab=repositories

SUMMARY

Software Engineer with around 2 years of experience in Java and Python, a strong passion for Machine Learning, and proven problem-solving abilities. Eager to contribute to groundbreaking projects while honing skills in software engineering and machine learning domains.

EDUCATION

University at Buffalo SUNY - Master of Science in Computer Science **Aug 2022 - May 2024**
Software Engineering, Big Data Technologies, Data Intensive Computing , Machine Learning Buffalo, NewYork

ANITS - Bachelor of Technology in Information Technology **Jun 2017 – May 2021**
Data Structures & Algorithms, Database Technology, Artificial Intelligence, Distributed Systems Vizag, India

TECHNICAL SKILLS and CERTIFICATIONS

- **Programming:** Java, Python, JavaScript, C, C++, C#, SQL, R
- **Web Technologies:** HTML, CSS, ReactJs, JQuery, SpringBoot, NodeJs, Bootstrap, Angular, Django
- **Databases/BigData:** MYSQL, DocumentDB, MongoDB, Google Cloud, Hadoop, Hive, Kafka, CI/CD pipelines
- **Other Technologies:** Microservices, RESTful APIs, AWS, Azure, Docker, Agile, Git, Jira, SDLC, Numpy, Pandas, TensorFlow
- **Certifications:** AWS Certification, Python Data Structures, Informatica Certification, Java on Azure

WORK EXPERIENCE

Tia Infotech Corp **Sep 2024 – Present**
Software Engineer, Remote *[Tech: Java, Spring Boot, RESTful APIs, Kafka and SQL]*

- Designed and Implemented a Spring Boot application with RESTful APIs, achieving a 20% improvement in performance and response time.
- Streamlined deployment processes by automating CI/CD pipelines, reducing deployment time by 40%.
- Developed and optimized microservices architecture to enhance scalability and reliability for distributed systems.
- Collaborated with global teams of 100+ developers using Agile methodologies and Slack, contributing to automated testing, documentation, and open-source projects, ensuring high-quality software delivery and impactful improvements.

MaxoTech Solutions LLC, Hyderabad, India
Software Developer [Tech: Java, Python, Spring Boot, Docker and Hibernate] **Feb 2021 – Aug 2022**

- Designed and implemented a Java-based recommendation engine, leveraging advanced algorithms to deliver personalized suggestions, resulting in a 12% increase in user engagement.
- Optimized backend performance by implementing multithreading, reducing processing time by 25% and improving system throughput for high-volume data processing.
- Collaborated with cross-functional teams to design and deploy scalable, cloud-native solutions, ensuring high availability and reliability for diverse enterprise clients.
- Conducted comprehensive code reviews, identifying areas for improvement and implementing changes to enhance performance and maintainability.

Hebeon Technologies Hyderabad, India
Python Developer Intern [Tech: Python, Numpy, Pandas, Matplotlib, Scikit-learn, Git] **Jul 2020 – Aug 2020**

- Constructed a machine learning model using **Python** and advanced regression algorithms (Linear Regression, Decision Trees, Random Forests) to predict employee salaries based on experience levels.
- Demonstrated the ability to bridge gaps between data science and business objectives through successful model implementation with an accuracy of 92%.

ACADEMIC PROJECTS

Amazon Clone **Nov 2024**

- Developed a high-fidelity Amazon Clone using JavaScript, React, Firebase, HTML/CSS, and NodeJs. Integrated key features such as user authentication, real-time database, and serverless functions.
- Demonstrated proficiency in **full-stack** development and rapid prototyping.Leveraged React Context API for efficient state management, slashing error rates and processing time by 50%.

Malware Detection Using Forward and Backward Analysis **April 2023**

- Developed a malware detection system using forward and backward analysis techniques to identify malicious code patterns, achieving a detection accuracy of 95%.
- Integrated static and dynamic analysis methods with machine learning models to classify malware types and improve detection efficiency by 30%.
- Implemented advanced techniques like taint tracking and control flow graph analysis to effectively trace malicious code propagation paths.

Sentiment Analysis on Scraped Tweets **May2021**

- Built a sentiment analysis system using Naive Bayes and text preprocessing techniques, achieving accurate classification of tweets into positive and negative sentiments.
- Extracted features and optimized datasets through stop word removal, n-gram modeling, and API-driven data scraping to enhance model reliability and performance.