

SAI SHIVA RAMAKRISHNA PRASAD

1213 Daylily loop, Georgetown, Texas | +17373562899

saiaramandala@gmail.com | www.linkedin.com/in/saiaramandala

PROFESSIONAL SUMMARY

Software Engineer with 5 years of experience at Amazon and Deloitte, skilled in designing scalable APIs, implementing Infrastructure as Code, and optimizing real-time data pipelines. Expertise in building high-performance systems with a focus on system reliability, operational excellence, and reducing integration defects. Experienced in mentoring teams, driving cross-functional initiatives, and applying design patterns to enhance code maintainability and scalability.

EDUCATION

Master's in Information Technology – University of Cincinnati – Cincinnati, USA – Aug 2022

Bachelor's in Information Technology – VNR Vignana Jyothi Institute of Engineering & Technology – Hyderabad, India – May 2018

TECHNICAL SKILLS

Programming Languages: Python, SAS, R, C, Java, Scala, Kotlin

Python Libraries: NumPy, SciPy, Pandas, Keras, TensorFlow, Seaborn, Matplotlib, OpenCV

Web Technologies: HTML5, CSS, JavaScript

Databases: MySQL, Oracle, PostgreSQL, NoSQL

Cloud: Microsoft Azure, Google Cloud Platform, AWS

Tools/Technologies: Airflow, Delta Lake, Databricks, AWS CDK, Apache Spark, Hive, Hadoop, Tableau, Kubernetes, Kafka

PROFESSIONAL EXPERIENCE

Software Development Engineer – *Amazon.com*.

Sept' 22 - Present

- Designed and implemented robust APIs for key product features, enhancing system functionality while adhering to RESTful principles, backed by comprehensive unit testing to ensure reliability and performance
- Practiced engineering and operational excellence by going on-call to action on bugs within SLA and respond to system incidents, preserving 99% service uptime
- Drove impact and upwards alignment across 4 projects by scoping requirements, authoring design docs, defining tickets, and executing end to end
- Conducted thorough code reviews to ensure high code quality, consistency, and adherence to best practices
- Integrated and promoted the use of design patterns to improve code maintainability, scalability, and efficiency across projects
- Conducted thorough operational readiness reviews for 2 critical features, ensuring smooth deployment, identifying potential risks, and verifying compliance with operational standards, resulting in successful launches and improved system reliability
- Developed and maintained Infrastructure as Code using AWS CDK ensuring consistent, scalable, and automated provisioning of cloud resources while reducing manual intervention and minimizing configuration drift
- Developed and implemented comprehensive integration test suites for two major features, which improved test coverage by 70% and reduced integration-related defects by 40%, while collaborating with cross-functional teams and integrating tests into CI/CD pipelines for automated early issue detection
- Built and deployed generative AI applications using AWS Bedrock, leveraging pre-trained models to create automated content generation and enhance user experiences.

Data Engineer – *Deloitte Touche Tohmatsu Limited USI*.

Sept' 18 – Aug' 21

- Engineered robust data pipelines to efficiently clean, and transform large datasets for use in advanced analytics and business intelligence tools, ensuring high-quality data for decision-making processes
- Designed and implemented scalable data models and analytical frameworks using SQL, Python, and specialized data processing tools, enabling real-time insights and automated reporting across the organization
- Engineered and maintained batch and streaming data processing workflows by leveraging technologies like Apache Kafka and Spark to enable real-time and batch data handling at scale
- Developed and optimized ETL processes to extract, load, and transform data from disparate sources, applying mathematical models and algorithms to enhance data accuracy, consistency, and reliability
- Created automated dashboards and data visualizations in tools like Tableau, facilitating actionable insights for stakeholders at all levels of the business and enabling data-driven decision-making
- Coached and mentored team members on advanced SQL techniques, data wrangling, and data visualization best practices, enhancing the team's analytical capabilities and fostering continuous improvement

Intern – *JP Morgan and Chase*.

Mar' 18 – Jun' 18

- Developed an Android application that enables users to explore and engage in stock investments, integrating real-time market data and user-friendly features for seamless investment tracking and decision-making.