SIDDHANT SORANN

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PROGRAMMING SKILLS

- **Languages**: Java, Python, Ruby, SQL, NoSQL, Javascript, Typescript, Node.js, HTML/CSS
- **Databases**: MySQL, PostgreSQL, MongoDB, Redis, Firebase
- **Tools**: Kubernetes, Docker, GIT, AWS Cloud (EC2, S3, SQS, Aurora, EKS), Jenkins, Prometheus, Grafana, Azure, GCP
- **Frameworks**: Spring Boot, Flask, Maven, Hibernate, JUnit, TestNG, Mockito, Ruby on Rails, React, Angular, Helm, Apache Kafka, Apache Solr, REST API

WORK EXPERIENCE

MathWorks Natick, MA
Engineering Development Group Intern May 2023 – Aug 2023

- Enhanced Ruby web service performance by 42%, delivering search results & suggestions more efficiently by refactoring into a containerized, serverless, RESTful Ruby on Rails architecture, & facilitating cloud migration using Docker & Kubernetes.
- Achieved a 38% improvement in MATLAB search effectiveness by collaborating with the product team to implement OpenAI API-driven prompt engineering, enhancing Apache Solr search query accuracy and user search term relevancy.

MiQ (Programmatic Ad-Tech) Bangalore, IN
Senior Software Engineer Jan 2021 – Jun 2022

- Led a team of 5 SEs to reduce the data processing time for programmatic ad campaigns from 60 to 1 min & eliminate revenue leakage by designing & developing a distributed system using Kafka, MongoDB, Redis, AWS, Spring Boot & Kubernetes.
- Improved alert response time by 90% by developing a Java & Spring Boot based web service for pipeline monitoring.
- Upscaled an on-demand real-time report generation service for advertisers by implementing a NoSQL (MongoDB) database storage solution with caching using Redis, reducing overall latency by 40% & easing the workload for client services teams.
- Pioneered adoption of Test Driven Development & Sonar across technical teams, enabling a "Release When Ready" approach.

Software Engineer - II Jun 2018 – Dec 2020

- Streamlined advertising campaign management by transitioning the frontend from AngularJS to React, cutting support issues by 40%, and boosting stability and usability. Integrated Hooks, Axios, Jest, Bootstrap, and Lerna for enhanced efficiency.
- Upgraded on-prem Spring services to Spring Boot v2 REST API web services, containerized with Docker & Helm for Kubernetes, achieving a 92.5% improvement in API latency (from 200ms to 15ms) & reducing technical debt by 35%.
- Generated notable monthly savings of $1,500 by optimizing MySQL relational database queries and CPU utilization.
- Enhanced application reliability & attained 99.9% up-time by implementing Prometheus metrics & Grafana dashboards.
- As a Scrum Master, improved Agile processes and achieved a remarkable 95% predictability rate and 90% on-time code reviews.

ACADEMIC PROJECTS

Kubernetes-based Real-time Data Processing Pipeline Mar 2023

- Designed a Kubernetes based pipeline for streamlined real-time document processing, achieving a throughput of 10,000 documents per minute, exceeding project benchmarks.
- The project required integrating Kafka and Zookeeper for high-efficiency data flow & implementing a multi-layered processing system in a Neo4j distributed environment, improving data transformation.

AWS IaaS Cloud Scaling and Image Classification Dec 2022

- Crafted a scalable solution capable of classifying 1000 images in under a second, surpassing project requirements by 200%.
- Integrated AWS EC2 & SQS for high-speed concurrent processing, & employed S3 buckets for efficient data management, showcasing advanced cloud architecture & rapid data processing skills.

EDUCATION

ARIZONA STATE UNIVERSITY Tempe, AZ
Master of Science in Computer Science; GPA: 4.0/4.0 Aug 2022 – May 2024
Relevant Coursework: Cloud Computing, Mobile Computing, Foundation of Algorithms, Data Mining, Data Processing at Scale

VELLORE INSTITUTE OF TECHNOLOGY Tamil Nadu, India
Bachelor of Technology in Computer Science Jul 2014 – May 2018
Relevant Coursework: Data Structure & Algorithms, Design Patterns, Operating Systems, Computer Networks, Object Oriented Programming Systems

ACHIEVEMENTS

- **MiQ Impact & Individual Annual Award Recipient** (2020 & 2022).
- **Recognized with the highest rating of "Role Model"**, for embodying company values (2020 & 2021).
- **Published five technology blogs on Medium**; sharing knowledge and insights with the tech community.
- **Collaborated with maintainers on Spring open-source projects**.