

# SRINIDHI G, Software Engineer

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## OBJECTIVE

Dedicated and results-driven Software Engineer with over three years of experience in a leading multinational corporation. Proven track record in delivering high-performance server-side solutions, showcasing expertise in backend technologies and API development. Possessing a robust technical background, I am passionate about creating impactful products that drive innovation and enhance user experiences. Eager to leverage my skills and knowledge, currently seeking a challenging role in software development where I can contribute my technical acumen to deliver tangible business value.

## EXPERIENCE

**Apple** Jul 2024 - Present

### Software Engineer - Maps

- Develop and implement a robust framework for conflating and digitizing hiking trail data to enhance the accuracy and reliability of hiking maps on Apple Maps.
- Actively involved in identifying and reducing data errors within the hiking trail data pipeline, leading to a 60% reduction in inaccuracies and significantly enhancing the overall quality of the data.
- Collaborating with cross-functional teams to ensure accurate and reliable hiking trail data for Apple Maps users.

**Rakuten India** Feb. 2021 - Jul 2024

### Software Engineer I

- Collaborated with Data Engineers to develop applications and services for seamless creation and management of various data pipelines, achieving a 90% onboarding rate onto the IAAS platform within the first quarter.
- Spearheaded the development of applications, resulting in a 40% reduction in data ingestion time through streamlined processes and automation.
- Achieved a significant 50% reduction in the average time taken to resolve data ingestion errors, demonstrating a commitment to maintaining high data reliability standards.

### Associate Software Engineer

- Achieved a notable 30% reduction in ETL job launch time for users outside the big data and Spark domain by introducing the Data Wrangler Tool. This tool enables users to effortlessly execute both ad-hoc and scheduled jobs through native SQL queries, enhancing operational efficiency.
- Led the development of the Data Quest Tool, resulting in a 25% enhancement in data exploration efficiency. This innovative tool delivers contextual insights into datasets, significantly improving the overall ease and depth of the data exploration process.

### Technical Intern

- Improved roster management efficiency by reducing scheduling conflicts by 20%, resulting in a more streamlined and error-resistant process.
- Implemented automated shift assignment notifications, achieving a 40% reduction in communication delays. Ensured timely updates for staff members, enhancing overall operational efficiency.

## EDUCATION

**University of Visvesvaraya College of Engineering (UVCE)** Jun. 2017 - 2021  
B.E. in Computer Science and Engineering - 76.4%

## PUBLICATIONS

**Deep CNN for Handwritten Kannada Numerals Recognition** *Python, CNN, Computer Vision, Numpy*

- The research paper highlights the impressive achievements of utilizing a deep CNN for the recognition of handwritten characters and numerals in two distinct datasets—the Kannada and Dig-MNIST datasets.
- Achieved remarkable accuracy on Kannada-MNIST and Dig-MNIST datasets can be extended and applied to other languages that share similar characteristics with Kannada.

DOI : [https://doi.org/10.1007/978-981-16-3690-5\\_2](https://doi.org/10.1007/978-981-16-3690-5_2)

## PROJECTS

### HikeMap Conflation

*Scala, FusionX, NeutronCLI, ReactorX-core Workflow*

- **Developed a Comprehensive framework:** Develop and implement an advanced framework for automating the conflation and digitization of hiking trail data, focusing on improving accuracy and reliability for hiking maps on Apple Maps.
- **Trail Segmentation and Parallel Segment Differentiation:** Streamlined the process of automatically splitting large hiking trails into smaller, more manageable sections. Accurately handled and distinguished parallel road and rail segments from hiking paths to ensure correct representation on Apple Maps.
- **Spectrum Validation Checks:** This extensive validation process cross-referenced the modified data against various sources and criteria, ensuring data accuracy, consistency, and alignment with real-world trails. The system validated trail integrity, corrected discrepancies, and ensured that each hiking path was properly represented and up-to-date.

### Ingestion As A Service (IaaS)

*Kafka, Airflow, SpringBoot, CloudSQL*

- **Developed a Comprehensive Ingestion Solution:** Designed and implemented a standardized ingestion process that allows users to ingest data from various sources and formats, reducing setup time significantly and ensuring data reliability and quality across the platform.
- **Centralized management:** IaaS provides a unified platform to manage all your data ingestion pipelines, simplifying monitoring and troubleshooting.
- **Improved Monitoring and Troubleshooting:** Implemented robust observability and monitoring tools for ingestion pipelines, ensuring data correctness and quality, and shifting troubleshooting from a reactive to a proactive approach.

### Data Wrangler

*SpringBoot, Scala, Spark, MySQL, Airflow, Python*

- **Efficient Data Preparation:** The Data Wrangler Tool streamlines the process of preparing and transforming raw data into usable formats, enhancing efficiency in data management tasks.
- **Config-Driven ETL:** With YAML-based configurations, the tool automates Extract, Transform, Load (ETL) jobs, simplifying the migration of jobs from legacy systems to new tech stacks.
- **Centralized Job Scheduling:** Evolving from a job migration facilitator to a comprehensive scheduler, the tool now serves as a centralized platform for scheduling various jobs across the SuperDB platform, promoting better job management and organization.

### Data Quest

*SpringBoot, PostgreSQL, ArangoDb, AWS*

- **Empowering Data Consumers:** Data analysts and scientists leverage the processed data to generate insights using advanced tools and techniques, aiding businesses in making strategic decisions.
- **Streamlining Data Production:** Business operations and support systems, such as transaction databases, websites, user analytics, ads, and CRM, continuously generate valuable information crucial for daily activities and long-term planning.
- **Facilitating Data Infrastructure:** Data engineers play a pivotal role in building and maintaining systems like data lakes, warehouses, and marts, ensuring that data is efficiently collected, managed, and transformed for accessibility by data analysts, scientists, and other stakeholders.

## SKILLS

### Languages:

Java, Scala, Spark, Python, SQL, Git

### Technologies & Tools:

SpringBoot, Airflow, Kafka, GCP, MySQL, ArangoDB, Git, Linux, Docker, Grafana

### IDE & tools:

IntelliJ, JIRA, VS code, Confluence, GitHub, BitBucket

### Certifications:

- Certification for Apache Airflow Fundamentals and DAG Authoring, Astronomer
- AWS FUNDAMENTALS Specialization, AWS(Coursera)

## HOBBIES

Cycling, Cooking, Badminton