Swarangi Gaurkar

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EDUCATION

North Carolina State University   May 2024 | Raleigh, USA
Masters in Computer Science | GPA : 3.8/4

Pune Institute of Computer Technology   Apr 2020 | Pune, India
Bachelor's in Computer Engineering | GPA : 9.13/10

TECHNICAL SKILLS

Languages (Java, Python, Go, JavaScript, SQL) | **Databases** (MongoDB, PostgreSQL, Impala, Firebase, MySQL)

Developer Tools (VS Code, IntelliJ Idea, Eclipse, Android Studio, Jenkins, Perforce Helix, Git, Jira, Confluence)

Technologies/Frameworks (AngularJS, VueJS, Flask, Spring Boot, Spark, Kafka, Hadoop, Hive, Kubernetes, Docker, Tensorflow, Keras)

PROFESSIONAL EXPERIENCE

Yahoo   May 2023 – Aug 2023 | Champagne, IL
Software Developer Intern
- Designed and implemented a cloud migration dashboard using **MySQL**, **ETL pipeline**, **JavaScript**, and **Vue.js**, enabling real-time tracking of Yahoo teams' cloud migration progress for senior executives
- Engineered an efficient **MySQL** database and **ETL** pipeline, increased optimization of SQL queries by **30%** for data retrieval, and developed **APIs** for seamless data collection and integration
- Increased senior executives' visibility into Yahoo teams' cloud migration progress by implementing a real-time dashboard, leading to a **25%** improvement in tracking efficiency

Credit Suisse AG   Jul 2021 – Jul 2022
Software Engineer
- Led the **Data Ingestion Framework** using **Hadoop** and **Kafka** data pipelines, automated ingestion and processing of large amounts of transactions data reduced latency by **30%** through the integration of scheduler and multi-processing in the feature engineering code
- Developed the **Ownership Enrichment feature** to assign input breaks to right department using **Apache Spark** to improve SLA from **4 days to 1 day**
- Integrated **CI/CD** pipeline for **Kubernetes** deployment of the payment service to reduce cost and increase availability
- Formulated and visualized data inconsistencies across multiple data centers and sources (IMATCH, CTC) using Tableau, identifying and resolving 100+ discrepancies, ensuring data accuracy and integrity

Nice Systems Ltd   Aug 2020 – Jun 2021
Software Engineer
- Implemented evaluation form in **Agent Evaluation Portal** to assess performance utilizing customer call transcripts, leading to a **30%** increase in agent performance
- Engineering Lead for the implementation and integration of **microservices** with **AWS**
- Developed performant backend for Agent Portal on **gRPC**-based java **Spring Boot, Angular** and performed extensive code refactoring to **optimize server response** time by **26%**
- Tested the application using **JUnit**, **JSystem** and **Karma** that improved applications responsiveness

PROJECTS

Predictive Maintenance of Industrial Machines
- Utilized Arduino UNO as edge device for **Condition Based Monitoring,** trained **LSTM** model on factors like vibration, power consumption, resulting in a 30% reduction in machine downtime
- Analyzed **time series** datasets to predict the **RUL** and predict faults 7 days in advance with **94% accuracy** using Random Forest algorithms
- Published the research paper in International Research Journal of Engineering and Technology 2021 (view paper ⧉)

URL Bit ⧉
- A full-stack web-application that allows users to shorten long URLs using **Flask**, **PostgreSQL**, **MVT framework** and deployed on Heroku

FlashCards ⧉
- Implemented the standard flashcard functionality using **Python FLASK-RESTful, Requests**, added **role based access control**
- The API included **pagination** and **caching support**, and **timeout handling mechanisms**

LEADERSHIP AND ACHIEVEMENTS

- Credit Suisse Hackathon 2022 : Designed and developed a Multitenant Data Mover in Golang, which uses multiple nodes to upload/download data of Oracle Real Application Clusters to/from AWS S3
- Designed interactive website for organized by **ACM-W** events
- Won Best Android Application for Schedule Management System, **Google Developer Student Club**, 2019