Akhila Sulgante

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Software Developer with 3+ years of experience in microservices and back-end engineering, currently researching ML model fairness with Data Visualization to drive meaningful advancements in the field.

Education

Northeastern University, San Francisco   *Jan '22 – Dec '23(expected)*
Master's in computer science, 3.9/4.0
Roles: Teaching Assistant(Algorithms, Intensive Foundations of Computer Science), Research Assistant

Dr. Ambedkar Institute of Technology, India   *Aug '13 – June '17*
Bachelor's in computer science

Work Experience

Summer Analyst | Goldman Sachs, Japan   *July '23 – Sept '23*
Skills: Java, JUnit, Mockito, Spring, MongoDB, CI/CD, System Design, API Development, Test Strategies, ElasticSearch
- Built an enhanced retry mechanism using Java and Spring Boot for a report delivery platform that reduced **365.4 hours** of retry time (in 30 days) and **87%** reduction in Apache Flink calls by eliminating repeated data pipelines
- Performed extensive Unit, Integration, System, Stress, and Regression testing using Mockito, JMeter, and Swagger UI to ensure the quality and reliability of the API after retry feature addition
- Implemented CI/CD processes using GitLab for seamless feature development and deployment

Account Specialist | Amazon, India   *May '20 – Dec '21*
Skills: Data Analysis, Business Development, Data Visualization, Search Engine Optimization, Quality Assurance
- Collaborated with brand representatives to develop data-driven ad campaign strategies for over 120 brands, achieving an average of 40% increase in product visibility within one year
- Leveraged Tableau for Voice of Customer data analysis, resulting in the creation of an efficient process that reduced customer query resolution time from 5 to 2 business days.

Assistant Application Developer | Fujitsu, India   *Dec '17 – Mar '20*
Skills: Object-oriented Design, Java, Junit, Algorithm, SQL, Integration Testing, Bug fixing, Requirement documentation
- Designed efficient Algorithms and developed components in Java and tested them with JUnit
- Employed SQL for backend data retrieval, enabling efficient financial operations and data processing
- Swiftly resolved Integration Testing issues ahead of schedule, leading to a 30% reduction in the phase duration
- Performed bi-weekly reviews, assessed team's quality performance, and devised improvement strategies

Key Projects

Research   *Sept '23 – Present*
- Leveraging Grammer of Graphics, I am Creating an Interactive user-friendly data viz tool that provides users with insights to detect and mitigate potential biases within their datasets to promote Fairness in ML models

Peko - A food ordering website   *Nov '22 – Dec '22*
- Deployed a **MERN**-stack food delivery app following **agile** practices and performed unit and system tests
- Executed A/B tests to optimize the website's performance and UX through data-driven improvements
- Identified potential accessibility issues and followed **POUR** principles to improve the website's accessibility
- Incorporated filtering options to ease the ordering process and implemented **CRUD** operations in **MongoDB**

Hate Speech Detection   *Jul '22 – Aug '22*
- Built **Shallow and Deep learning models** to detect hate and offensive speech on Davidson's Twitter dataset
- Preprocessed the dataset using **NLTK library** functions to improve model accuracy by 15%
- Developed multi-model consisting of **CNN and MLP** with **TF-IDF word embedding** and **regression classified**

Technical Skills

Domain Knowledge: Machine Learning, Natural Language Processing, Software Development, Web Development, Data Visualization, DBMS, Microservices, Data Structure, Algorithms, System design
Programming Languages: Java, Python, C, C++, JavaScript, R
Web Development: HTML, CSS, React, Node.js, Express.js
Database: MySQL, MongoDB, ElasticSearch
Testing: JUnit, Cypress, JMeter, Mockito