Anoop Musale

591 Harley Dr, Columbus, OH 43202 • [anoopmusale27@gmail.com](mailto:anoopmusale27@gmail.com) • (607) 761-0926

# Technical Skills

**Programming:** Python, Java, SQL, Shell Script

**Tools:** Informatica PowerCenter, Informatica Intelligent Cloud Services, Kafka, Git, Jira, ServiceNow, Liquibase,

Stonebranch Scheduler

# Experience

**Tata Consultancy Services** Columbus, OH

*Client: Nationwide Insurance*

Software Engineer/Data Engineer August 2019 – Present

* Improved performance of Informatica code and SQL queries to reduce the batch runtime by 2 hours.
* Implemented shell script for ETL informatica packaging for Production, this helped reduce manual intervention with production code.
* Packaging tool also helped remove human error and saved 10 hours of effort every release.
* Implemented a system testing tool in SQL to perform side by side testing.
* Resolved 100+ change requests through Jira and ServiceNow which include requirement gathering, analyzing requests, development changes and end to end testing.
* Collaborated with other developers to resolve 250+ code and technical issues and QA to unblock critical production issues that helped in saving the company from technical debt in a 5 - 6 weeks span.
* Programmed and upgraded Informatica (ETL) code to accommodate new changes from Guidewire Policy Center.
* Migrated database from on-premises server to AWS RDS.

# Research Experience

**SURVEY PAPER ON MAZE GENERATION ALGORITHM FOR PUZZLE SOLVING GAMES** February 2017

* Analyzed, researched, and compared 3 maze generation algorithms Depth First Search, Kruskal’s Algorithm and Prim’s Algorithm.
* Published in International Journal of Scientific & Engineering Research.
* Cited by 5 papers as of May 2022.

# Personal and Academic Projects

**TITANIC: MACHINE LEARNING FROM DISASTER** March 2019

* Developed and compared accuracy of 6 machine learning models in Python using Pandas, NumPy and Matplotlib for processing data.
* 6 models were trained using Decision Tree, K-Nearest Neighbors, Logistic Regression, Naïve Bayes, Random Forest, and Support Vector Machine algorithms.

**CANCER RECOGNITION** Nov 2018

* Implemented classification models in Java, for detection and classification of the type of cancer a patient may have/develop based on 45 parameters.
* 3 models were trained using Single Continuous Perception Training Algorithm, Support Vector Machine (SVM) and Decision Tree on the data of 100,000 patients.

**CPU SIMULATOR** August 2018

* Programmed code in Java to replicate behavior of CPU when a set of instructions are provided.
* Program returned snapshot of the instruction after every step for clear understanding of how CPU works at machine level.

# Education

**STATE UNIVERSITY OF NEW YORK, BIINGHAMTON** Binghamton, NY

Master of Science Computer Science May 2019

**MUMBAI UNIVERSITY** Mumbai, IN

Bachelor of Engineering, Information Technology May 2017