Aniruddha Thaksen Parvat

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EDUCATION

MS in Computer Science and Engineering   Buffalo, NY | Aug 2021 - Present
UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK
Coursework: Operating Systems; Algorithms Analysis and Design; Introduction to Machine Learning; Distributed Systems

Bachelor of Engineering (Computer)   Pune, India | July 2013 - July 2017
SAVITRIBAI PHULE PUNE UNIVERSITY
Coursework: Engineering Mathematics, Data Structure and Problem Solving; Microprocessor Architecture; Theory of Computation; Operating Systems Design; Programming labs(8); Computer Networks; Modern Compiler Design

WORK EXPERIENCE

MINDTREE | SENIOR ENGINEER   Bengaluru, India | 22 July 2017 – 23 July 2021

- Developed **REST APIs** and **event driven** systems using **Java, Cassandra, ActiveMQ and Hazelcast**.
- Worked on all aspects of performance improvement from coding and deployment to load testing and presenting results. Improved performance by 30% by analyzing production data, implementing efficient caching and tuning Cassandra. Improved further 30% by code optimization.
- Created dashboard using Prometheus, Streamlit and custom tools to monitor system. Same tools were then used to monitor production.
- Successfully designed, tested and executed historical data handling strategy during cloud migration.
- Developed internal developer tools for automated dev testing. The testcases can be quickly defined in txt files and shared. It helped during a rewrite to ensure faster development by catching defects early.
- Implemented contextual logging for better traceability through logs.

SKILLS

Languages: Java, Python, JavaScript
Frameworks and libraries : Spring ecosystem, Hibernate, Pandas, Plotly, Streamlit, Keras, SciPy
Databases : Apache Cassandra, MySql, Hazelcast
Technology: Git, Docker, Apache Kafka, Apache ActiveMQ, Oracle WebLogic, AWS

PROJECTS

MESSAGE BROKER ↗   JAVA, SPRING BOOT, MYSQL , APACHE TOMCAT
ToyMB, a message broker that works using http. Supports persistent messages with subscriber groups and topic partitions. Supports pull and push interface. Has straightforward enrichment api to enrich messages in middleware. Java Spring boot driver available with annotation and template style interface.

FLIGHT DELAY PREDICTION ↗   PYTHON, PANDAS, KERAS, NUMPY, SCIPY, BEAUTIFULSOUP
Domestic flight performance data from U.S. Department of Transportation's (DOT) Bureau of Transportation Statistics combined with weather scraped from 'www.wunderground.com' and airport data scraped from Wikipedia. Date features like holiday, weekends, day of the week were extracted from flight date. Last 30 days of data was considered as test data. Final Random Forest model had 90% accuracy on the test data.

NETWORK INTRUSION DETECTION SYSTEM ↗   PYTHON, PANDAS, KERAS, NUMPY, SCIPY
Final year bachelors project. Network intrusion detection system using ensemble of binary deep learning classifiers. Two staged NIDS evaluated. 81.37% accuracy on test set. Published 2 papers as a result of this project.

PORTABLE GENERATOR ↗   JAVA, JAVA REFLECTION
Java utility to generate 'writePortable()', 'readPortable()' and class definition automatically for any class for faster serialization with hazelcast