Sanket Bailmare

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EDUCATION

Indiana University, Bloomington, Indiana — May 2023
Master of Science in Computer Science — *3.9 GPA*

University of Mumbai, Mumbai, India — May 2019
Bachelor of Engineering in Computer Engineering — *3.8 GPA*

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, SQL, HTML, CSS
Databases: MySQL, PostgreSQL,DB2, MongoDB, Redis
Frameworks: Spring Boot, Spring MVC,Hibernate, ReactJS, React Native, JUnit, Power Mockito
Skills and Interest: Git, Linux/Unix Commands, Maven, Jenkins, Microservices, REST APIs, Docker, Kubernetes
Topics: Algorithms, Data Structures, Cloud, Distributed Systems, Data Analysis, Airflow, Agile
Certifications: OCAJP Spring and Hibernate Azure Data Fundamentals Data Analysis

PROFESSIONAL EXPERIENCE

Software Engineer III Intern, Walmart Global Tech, USA — May 2022 – August 2022
Technologies: Java, Spring Boot, ReactJS, Power Mock, Kubernetes

- Designed, and developed a scalable application to onboard new partners to Walmart Sponsored Products Platform.
- Worked on Java Spring Boot to create onboarding process REST API's which reduced **30%** human efforts.
- Built responsive and functional UI components in ReactJS for partners to track their onboarding status.
- Used Power Mockito framework to perform Unit testing and Kubernetes to deploy the application.

Software Developer (Consultant in Morgan Stanley), Xoriant Solutions, Mumbai, India — September 2019 – July 2021
Technologies: Java, Spring Boot, Python, Dash, Mockito, HDFS, MQ

- Designed, developed, and maintained a scalable application used by multiple clients' daily requests for subscribing to files (data products), ingesting new files, monitoring the data files using Spring Boot and Java.
- Architected and developed a web-based application using React, HTML, CSS that consumes REST APIs created using Microservices to configure client-specific requirements thereby reducing the time of configuration by **80%**.
- Devised the REST APIs to collect files from HDFS/FTP and feed them to data processing pipeline.
- Improved code quality and stability (**40%**) by writing Unit tests using Power Mockito and SonarQube quality gates.
- Spearheaded the team of 3 to build dashboard in Dash-plotly for recommending files (data products) based on previous subscriptions which helped to achieve the most valuable Business KPI.

Associate Software Developer, Xoriant Solutions, Mumbai, India — July 2019 – September 2019
Technologies: Python, Elasticsearch, Docker, GCP

- Configured x-pack for the security of Elasticsearch Cluster used by recommendation application; Refactored python code to integrate security classes to check health, availability of nodes and connection with the node.
- Identified and created Indexes, mappings using both single and multi-document Elastic Search REST API's in python.

ACADEMIC PROJECTS

Weather Radar: **Distributed Systems** under Apache Airavata | *Java, Python, NodeJS, ReactJS, Kubernetes, Nginx* — Jan 2022

- Co-Designed a microservice-based architecture having 3 microservices for website that does weather trends using NEXRAD datasets hosted on AWS S3 buckets.
- Increased throughput by **40%** crafting a façade with API gateway (NodeJS Service) by caching in REDIS.
- Orchestrated containerized microservices to run on cluster of hots, auto scaling, and load balancing using Kubernetes. Tested the system using JMeter and Artillery.

IPL Analytics: Database Design | *Python, Flask, MySQL* — Dec 2021

- Designed logical model; documented the data such as entity relationships and attributes; optimized SQL queries for improved performance and availability
- Designed and developed APIs to fetch and feed teams, players and player statistics using python flask framework.

PATENTS AND RESEARCH

- **"Automated Malware Analysis"** Journal of Emerging Technologies and Innovative Research (ISSN:2349-5162)