Sandeep Tumati

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EDUCATION

Masters in Computer Science and Engineering, GPA 3.5/4.0 Aug 2022 – Dec 2023
University at Buffalo, The State University of New York *Buffalo, United States*

Master of Technology in Control Systems, GPA 3.6/4.0 Aug 2014 – May 2016
Vellore Institute of Technology, VIT *Vellore, India*

TECHNICAL SKILLS

Areas of Excellence: System Design, Problem-Solving, Design Patterns, Event-Driven, Micro-service, OOP, REST, Message Queue, Concurrency, GIT, TDD, Coding and Debugging, Requirement Gathering
Languages: Java, C++, Python, Go, SQL, JavaScript, Shell script, MATLAB, R
Frameworks: React.js, Spring Boot, Spring Data JPA, JUnit, Mockito, Redux, HTML, CSS
Databases: PostgreSQL, MySQL, IBM DB2, CosmosDB, MongoDB
Dev Ops: Linux, AWS, Azure, Terraform, Docker, Kubernetes, Git

EXPERIENCE

Senior Software Engineer | *Java, Spring Boot, JavaScript, React* Nov 2021 – Aug 2022
Oracle — Oracle Cloud *Hyderabad, Inida*
- Worked in Oracle Data Cloud to develop an application called Campaign Hub and Direct Mail Work Flow, which targets the best individuals for advertising using technologies like Java, Spring Boot, React, JavaScript, Micro-services, Docker, and Kubernetes. Moreover, I have experience creating pipelines in Git Lab for Continuous Integration and deployment.
- Developed an application that takes all the feedback from customers/ clients using the Oracle Cloud and performs Sentiment analysis to understand the responses using Natural language processing.

Software Engineer | *Java, Spring Boot, JavaScript* Jan 2020 – Oct 2021
Pegasystems — Platform *Hyderabad, India*
- Built an application to identify duplicate(s) from the user data, bulk imports using Bloom filter-based approach to the efficient way of identifying the duplicates
- Proposed a design for a highly efficient search engine using inverted indexing and Levinstein-Distance algorithm, which also involved building a Trie with all the metadata generated to make efficient querying.

Software Engineer | *Java, Spring Boot, JavaScript, SQl, Shell script* Feb 2017 - Dec 2019
Infosys *Hyderabad, India*
- Developed an application that deals with the benefits, earnings, and deductions of Kroger employees and Non-Employees using technologies like Java, Spring Boot, and Spring Data JPA.
- Built the application to generate and send the WFP reports from the centralized database(IBM DB2) to vendors. Used technologies like Java, SQL, and Shell scripting.

COURSE WORK

Database Systems, Distributed systems, Object Oriented Programming, Data Structures, Algorithms and their Analysis, Statistical Data Mining, Linear Algebra, Machine Learning, Data Modeling Query Language

ACADEMIC PROJECTS

Development of Relational Database(TacoDB) | *C++* Dec 2022
- Designed and developed key database components, like File Manager, Buffer Manager, VarLenDataPage, Indexing unit B+tree, and Query planning and Optimisation, as part of the project focused on database design and performance optimization.

Distributed Message Communication | *Go* May 2023
- Demonstrated expertise in peer-to-peer communication protocols, including designing and implementing secure and efficient communication channels between multiple nodes in a distributed system.
- Built a replicated state machine utilizing the Raft consensus protocol to enable leader election, replication, and fault tolerance across multiple key-value servers