GUGULOTH PAVANKALYAN NAYAK

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EDUCATION

Masters of Computer Science, State University of New York at Buffalo — August 2023 - December 2024
Relevant Coursework: **Algorithms Analysis, Machine Learning, Data Intensive Computing**
Bachelor of Technology in ECE, National Institute of Technology Rourkela — July 2016 - June 2020

SKILLS

Programming Languages :	C, C++, Java, HTML, CSS, JavaScript, JSON, Python, R, SQL
Database & ORM :	RDBMS (MySQL, Oracle), Hibernate, Spring Data JPA, NoSQL (MongoDB)
Messaging Systems:	RabbitMQ, Pub/Sub Architecture
AI/ Data Science:	Hadoop, MapReduce, Pandas, Scikit-Learn, NumPy, Pytorch, TensorFlow, PySpark
Frameworks/APIs/Cloud:	Spring MVC, REST APIs, Multithreading, Kafka, AWS, JUNIT5, Docker, Flask
Project/Version Control:	Agile, Scrum, Atlassian Jira, Confluence, Git, CI/CD, Jenkins
Certifications:	Apache Kafka, Cloud Native Development with Node.js, Docker, and Kubernetes

EXPERIENCE

Application Engineer II, Oracle, Hyderabad, India — May 2022 - Aug 2023

- Experienced in complete software development lifecycle (SDLC) of Minimum Viable Product (MVP) of HCM Celebrate product right from technical design, data modeling, coding, code review, testing, deploying, bug fixing, and code/API documentation.
- Developed PLSQL procedure for distributing reward points to employees on a monthly basis and worked on an Explicit Locking Mechanism for concurrent updates of likes and comments by users improving data consistency to 100%.
- Implemented Under Budget Restriction functionality for worksheet area in the Workforce Compensation product. Performed Root Cause Analysis of issues reported by customers and resolved them in minimal time.
- Innovatively automated the Business Component(BC) REST APIs testing in our application leveraging Bheem framework, resulting in decreased regression testing time from three hours to less than an hour by nearly 70%.

Software Engineer, CGI Inc, Bangalore, India — Sep 2020 - May 2022

- Built a high-performance, secure, testable, and maintainable RESTful service with clean, well-documented, and easy-to-use RESTful APIs for the 'Medway' application based on micro-services architecture in Java using SpringBoot framework and front-end web development using React JS.
- Collaborated with database administrators to optimize MySQL relational databases, achieving a 75% increase in query performance.
- By leveraging RabbitMQ queues, effectively minimized customer latency by separating the burdensome database write overhead associated with customer Orders.
- Implemented OAuth 2.0 authentication mechanism and RBAC (role-based access control) for authorization to ensure customer transactions are secure, through a dedicated authorization service.
- Reduced load time of the Homepage of the application by 80% by implementing cache in the backend API which fetched API metrics.
- Utilizing Apache Kafka, developed a data feed solution that feeds into a dashboard, providing management with daily oversight to track crucial client deliverables.

PROJECTS

- **BrandCollab AI System**: Designed a system where brands and influencers can collaborate and find the perfect match for their products and influencers can discover opportunities that align with their personal brand **Tech: Transformer Model (LLM), Semantic Matching Algorithms, Recommendation System, Flask, Postgres, SpringBoot, ReactJS**.
- **Smart Gardening System**: An automated gardening system is designed to monitor and control parameters involved with the growth of plants or saplings such as temperature, humidity, and light intensity. **Tech: IOT, ThingSpeak for data analytics, Neural Network training for weather forecast**.
- **Electronic Toll Gate System**: This project aims to eliminate delays on toll roads by collecting tolls without cash and without requiring cars to stop. **Tech: OpenCV EAST Text Editor, Tesseract v4's LSTM deep learning text recognition algorithm, Ngrok server**.

ACHIEVEMENTS

- Secured 4 star in Problem Solving in HackerRank.
- Participated in International Conference on Range Technology (ICORT), 2019 as the Smart Gardening System project got shortlisted for presentation.
- Received Meritorious Scholarship from Central Govt. for outstanding performance in intermediate.