DARSHAN DESAI

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EDUCATION

Binghamton University, the State University of New York   **May 2021**
Master of Science in Computer Science (GPA: 3.883/4.00)

Bharati Vidyapeeth College of Engineering, Navi Mumbai   **May 2017**
Bachelor of Engineering in Electronics and Telecommunication

TECHNICAL SKILLS

Languages: Java, Python, SQL, C, C++, HTML, Chart.js, NoSQL
Software and OS: MongoDB, PostgreSQL, Maven, CI/CD pipeline, Angular 14+, express.js, Spring Boot 3.0+, Hibernate, Sci-Kit Learn, SQL, Bit Bucket, Eclipse, Git, Linux, Vim, Kafka, Amazon web service, Mockito, Jasmine, JUnit, Docker, Kubernetes, Jira, node.js, Splunk, Jenkins, SVN, TOMCAT, Bootstrap, PCF, Django, Flask, Kibana, Redis

PROFESSIONAL EXPERIENCE

TATA Consultancy Services | CVS Health (Client) | (Software Engineer) | Providence, USA   **October 2021 - Present**
- Crafted 50+ RESTful APIs using the Spring Boot framework with JPA repository, adhering to best practices for scalability and maintainability. This effort improved efficiency by 10% while migrating legacy services.
- Re-architected the delta cache refresh process to address issues with stale scripts from earlier runs. This optimization reduced operations per second and decreased stale script occurrences at the POS by 20%, leading to a 15% reduction in store calls.
- Amplified application responsiveness in the legacy script-sharing project and via multithreading implementation resulting in reduction in latency by 80%, supporting the entire store chain load.
- Transformed the caching system by implementing Redis-backed data structures, such as sets and lists, which streamlined data access for 15+ application features, resulting in a 40% reduction in latency.
- Designed and deployed a dashboard using the Angular 14 framework, backed by complex data models in Django. This incorporated relationships and inheritance to provide corporate users with visibility into application performance, allowing them to identify store performances and thus reduce operational overhead by 15%.
- Engineered sophisticated SQL queries and aggregation methods within Oracle DB to meet the needs of over 10 applications, leading to a 40% improvement in data retrieval speed and increasing reporting accuracy.
- Devised and implemented an advanced anomaly detection system that identified performance degradation across 200+ key metrics; threshold adjustments resulted in a 30% reduction in critical incident response times.
- Mentored a team of 12 members and trained them in a legacy application for an L3 bug fix.

SARVAM GLOBAL LLP | (Executive) | Mumbai, India   **February 2019 – July 2019**
- Led the project of re-launching and re-designing company's website which increased online sales by 40% and improved navigation.
- Ensured 99.9% network, system, and data availability through maintenance and upgrades.
- Analyzed Google Analytics reports to identify trends and performance metrics, leading to a 20% improvement in sprint planning and prioritization during scrum meetings

Digitech Indian Pvt. Ltd. | (Executive Software Engineering) | Mumbai, India   **February 2018 – October 2018**
- Mitigated security threats to the website, reducing vulnerabilities by 30%, and evaluated bugs by webmaster tools.
- Developed and implemented client libraries for page, global, and component levels, using CSS and JavaScript, resulting in a 25% improvement in development efficiency and consistency.
- Orchestrated containerized applications with Kubernetes to boost scalability, reliability, and deployment efficiency across diverse environments, optimizing system architecture and performance.

PROJECT EXPERIENCE

Analyzing social media for the Digital Marketing Strategies | Binghamton, NY
- Collected 14k tweets using Twitter API and utilized SQL Alchemy to connect and manipulate data with MongoDB.
- Cleaned and Preprocessed dataset by using NLTK library then used Spacy to find NLP patterns in the dataset.
- Applied LSTM, VADER, and TextBlob algorithms, utilizing Fleiss' Kappa score, to attain 82% accuracy in a model.
- Integrated Chart.js visualizations into a Flask-powered backend web framework.

Implementation of Student Registration System using PL/SQL and JDBC | Binghamton, NY
- Generated the schema and constraints for student enrollment tables to track valid registrations.
- Used logs and triggers to maintain stateful transactions between the students' enrollments.
- Cultivated a Java-based UI to consume data provided by functions and procedures using PL/SQL.