Anuja Raghunath Katkar

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EDUCATION

University at Buffalo, The State University of New York   Aug 2021 - Feb 2023
Master of Science, Computer Science   *GPA: 3.92/4*
University of Mumbai, Mumbai, India   Aug 2015 - Jun 2019
Bachelor of Engineering, Information Technology   *GPA: 8.67/10*

WORK EXPERIENCE

Software Engineer, *Larsen & Toubro InfoTech Limited,* Mumbai   Aug 2019 - Jul 2021
- Built backend service for loading data from MongoDB to Solr, allowing 65% faster search over existing approach.
- Automated process of generating indexes on clusters of document collections by creating Docker pipelines leading to 87% increase in efficiency.
- Reduced monitoring efforts by 80% by developing an API to remove redundant configurations of services by triggering CI/CD pipeline in discovery.
- Headed team of 3 to support dev modernization efforts leading to improve security, better support and reduce cost.
- Performed root cause analysis utilizing Kibana and Grafana for checking logs and tracing errors to resolve business-critical issues.
- Led migration of data from MongoDB to MongoDB Atlas to bring high scalability and availability.

Web Developer Intern, *Majesco Inc.,* Navi Mumbai   Jun 2018 - Jul 2018
- Built a dynamic web app enabling admin to execute CRUD operation on books and maintain user accounts.
- Implemented a front-end utility to optimize site performance by 30% and enabled users to execute faceted and instant search for books, and view results as cards.

Intern, *Applab Technologies,* Mumbai   Aug 2017 - Sep 2017
- Designed a desktop Java application using SWING framework with a MySQL and JDBC backend for administering database containing student's records.

SKILLS

Programming Languages: Python, Java, JavaScript, C
Tools/Frameworks: MySQL, Git, MongoDB, Hibernate, .NET, Kibana, Grafana, AWS, Trello, Solr.
Web Technologies: HTML, CSS, TypeScript, ExtJS, Angular, NodeJS

PROJECTS

Text Chat Application | GitHub   Apr 2022
- Devised a chat application between multiple clients utilizing a single server with socket programming in C.
- Incorporated client-side features such as login, send-message, and blocking and unblocking other clients.
- Server-side features include statistics of messages sent or received by clients, buffer messages for logged out clients, a list of client-relevant information such as IP address, port number and status, and blocked list per client.
- Tech Stack: C.

Twitter Search Engine | GitHub   Oct 2021
- Coordinated with team of 4 to develop search engine allowing users to search info on Covid19 and vaccine tweets.
- Extracted 250K tweets with Twitter API and indexed on Solr in Python.
- Improved efficiency by 30% by introducing Tf-Idf scoring and skip pointers with document at a time strategy.
- Wrote analysis dashboards to visualize statistics of Covid19 and vaccine tweets across different languages, countries and Person of Interests (POI). Analysed impact of POI tweets on general population.
- Deployed web app on AWS EC2 via Flask endpoint with faceted search feature.
- Tech Stack: Python, Flask, Plotly.js, Solr, CSS, HTML, AWS EC2.

Vehicle Loan System | GitHub   Aug 2019
- Headed a team of 4 to design a web application to determine user eligibility for an automobile loan.
- Implemented an algorithm to determine eligibility based on metrics such as wage, rate of interest, employment type, age using Agile methodology and provided reasoning for application decisions.
- Automated pipeline to reduce application processing time by 60%.
- Incorporated functionalities for creating a pdf of loan application and visualization of total payment and balance.
- Tech Stack: Java, Hibernate, JSP, CSS.