DATRIKA SAI PRANAV

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Skills

- C++ | C | Java | JavaScript | TypeScript | C# | .NET | Node.js | Express | React | Bootstrap | Redux | jQuery | NoSQL | Git
- Azure | Cloud Computing | CI/CD | Objective-C | Jest | Swift | Python | Unit Testing | OOP | Postman | REST API | MSSQL
- Microservices | Distributed Systems | Frontend | Backend | Full Stack | Android Development

EDUCATION

Texas State University   San Marcos, TX, USA
 Master of Science in Computer Science - 3.58/4.0   Aug2022-May2024
 Courses: Database & Design Theory, Algorithm & Design Analysis, Distributed Computing, Artificial Intelligence

Osmania University   Hyderabad, INDIA
 Bachelor of Engineering in Information Technology - 8.08/10.0   Aug2016-Sep2020
  Courses: Data Structures, Operating Systems, Computer Networks, Web Development, Software Engineering

EXPERIENCE

Software Engineer(Worked_For_STA_Team)   DXC TECHNOLOGY   *Hyderabad, TG, INDIA*   JUN2020-JUL2022

- Gathered SDLC requirements, designed, developed, and tested applications using the Waterfall model.
- Developed web applications with HTML5, CSS3, Bootstrap, and AngularJS for responsive design.
- Utilized jQuery for animations and CSS pre-processors like SASS for styling.
- Created presentation layer and GUI framework using AngularJS and HTML.
- Rendered additional components using custom HTML tags with React.js.
- Wrote application-level code to interact with APIs using AJAX and Angular resources.
- Developed REST Web Services using Spring MVC and tested with SOAP UI.
- Employed Collections and multi-threading in Java for code development.
- Designed responsive web pages using Angular.js, React.js, and JavaScript frameworks.
- Created PL/SQL stored procedures, functions, views, and performed SQL tuning for database development.
- Developed CI/CD pipelines using OpenShift, Kubernetes, Jenkins, and Docker.
- Upgraded Struts to 2.X, making changes to action classes.
- Applied Java/J2EE design patterns like MVC, Singleton, and DAO.
- Developed Spring Boot middleware components and implemented SOA-based architecture.
- Logged application information using Log4j and maintained version control with GitHub.
- Implemented unit and integration tests using JUnit and Mockito to ensure code quality and reliability.
- Enhanced application security by implementing authentication and authorization mechanisms using Spring Security.
- Conducted code reviews and collaborated with cross-functional teams to ensure adherence to coding standards.

Software Engineer Intern   DXC TECHNOLOGY   *Hyderabad, TG, INDIA*   JUN2020-JUL2022

- Leveraged Eureka Client for dynamic service discovery and load balancing in Node.js applications.
- Improved data consistency and performance using Kafka for processing requests in Node.js services.
- Developed responsive user interfaces using HTML5, CSS3, JavaScript, React.js, Bootstrap, and jQuery.
- Used Zookeeper to monitor and manage service states, ensuring high availability in Node.js services.
- Designed system architecture based on Consistency, Availability, and Partition Tolerance principles.
- Boosted data retrieval speeds by implementing Redis as an in-memory data store in Node.js applications.
- Partitioned user data across MySQL, MongoDB, and SQL Server to optimize storage and retrieval.
- Implemented a rate limiter to control service requests and prevent overload in Node.js applications.
- RESTful APIs Development: Created RESTful APIs for frontend-backend communication using JSON in Node.js.
- Managed code repositories with GitLab and Bitbucket for collaborative development in Node.js.
- Ensured software quality and reliability using Mocha, Chai, and Postman for Node.js applications.
- Automated Testing: Utilized Selenium for automated testing of frontend interfaces in Node.js projects.
- Validated APIs using Postman for integration testing in Node.js microservices.
- Maintained high code quality through CI/CD practices using Jenkins and GitLab CI in Node.js.
- Achieved high scalability and fault tolerance by replicating data across multiple databases in Node.js applications.
- Implemented OAuth 2.0 for secure authentication and authorization in Node.js applications.
- Optimized application performance by profiling and monitoring with tools like New Relic in Node.js environments.

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PROJECTS

Book a Hotel (CODE)   Mar2024-May2024

- Develop an ASP.NET Core 6 REST API for hotel reservations, enabling user sign-up, login, and room booking functionalities.
- Use Angular for the front end, incorporating Material UI and CSS3 for styling and an intuitive user interface.
- Store and manage data with MYSQL Server, handling user information, room availability, and reservation details
- The app employs passing script for fairness, managing unconfirmed selections for 10,000+ concurrent users, ensuring scalability.
- Provide dynamic content through server-side rendering and client-side technologies like TypeScript, JavaScript, HTML5, JSON.

Surf Job (CODE)   Jan2024-Feb2024

- Developed scalable Python algorithms, optimizing data structures and algorithms, and enhancing the development lifecycle.
- Enhanced item accessibility with data using Graph data structure and HashMap, ensuring efficient deployment with HTML ,CSS.
- The application handles over 1 million concurrent users with advanced caching, data structures, and a built-in monitoring script.
- Implemented ERP shopping features using Oracle DBMS and SQL, utilizing DevOps for effectiveness within an MVC architecture.
- Managed Linux version control and database monitoring, ensuring reliability with Python, JSON, Swagger, and MVC frameworks.

Note Maker(CODE)   Aug2023- Dec2023

- Developed a Note Maker application with ReactJS for the front end, ensuring a dynamic and responsive user interface.
- Utilized NodeJS for the back end, enabling efficient server-side processing and API development.
- Implemented data storage and management using SQL Server, providing robust database solutions.
- The application can handle 100000+ concurrent users without latency issues, eliminating the need for a load balancer.

Sudoku Solver(CODE)   Mar2023 - May2023

- Developed a Sudoku puzzle solver that solves puzzles within 0.03-3 seconds using the A* search algorithm in C++ with an n-ary tree data structure. The web application can handle around 100+ concurrent users, solving puzzles in milliseconds, and in microseconds with multiple processes.
- Efficient algorithm ensures minimal memory usage and fast response times.