

DATRIKA SAI PRANAV

Texas, United States | www.saipranavdatrika.com | [LinkedIn](#) | 512-618-3912 | pranav.developer6@gmail.com | [GitHub](#)

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

Master of Science in Computer Science - 3.58/4.0

Courses: Database & Design Theory, Algorithm & Design Analysis, Distributed Computing, Artificial Intelligence

San Marcos, TX, USA

Aug2022-May2024

Osmania University

Bachelor of Engineering in Information Technology - 8.08/10.0

Courses: Data Structures, Operating Systems, Computer Networks, Web Development, Software Engineering

Hyderabad, INDIA

Aug2016-Sep2020

EXPERIENCE

Software Engineer([Worked For STA Team](#)) **DXC TECHNOLOGY** Hyderabad, TG, INDIA JUN2020-JUL2022

- Enhanced the automation tool with JavaScript, ReactJS, Bootstrap, HTML, and CSS3, focusing on UI design.
- Implemented GraphQL for efficient data integration, aligning with system design standards in incident tracking.
- Optimized PostgreSQL database design and SQL queries for improved information retrieval efficiency.
- Integrated Oracle database for critical data storage, ensuring reliability and sustainability in incident tracking software systems.
- Incorporated Redis NoSQL databases for fast information retrieval, enhancing monitoring and analysis in web development.
- Implemented Redis data caching to enhance system responsiveness, aligning with sustainable software lifecycle practices.
- Conducted performance testing and optimization to ensure quality assurance under heavy workload conditions in the system.
- Contributed to IT service management dashboard development, demonstrating analytical skills in project planning.
- Integrated Node.js into the frontend, emphasizing strategic thinking and quality assurance in product management for the tool.
- Implemented RESTful APIs for seamless communication, showcasing decision-making in incident tracking applications.
- Utilized various programming languages within an Agile framework for robust architecture.
- Integrated multiple relational databases to streamline data retrieval, enhancing cost-effective decision in applications.
- Implemented data processing with machine learning algorithms and MySQL, incorporating natural language processing for ticket identification and connecting to the best employee to resolve it.
- Enhanced security software using object-oriented design principles to protect incident tracking data, ensuring robust protection against network threats and vulnerabilities within an Agile environment.

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 SQL 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. Leveraging CDNs for product launch makes it suitable for static use by all users.