AJITH KUMAR POORI

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Education

Indiana University Bloomington   **August, 2022 - May, 2024**
Master of Science in Computer Science   CGPA: 3.7/4

Technical Skills

Languages: Java, JavaScript, Python.
Libraries: Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn.
DataBases:MySQL, MongoDB, PostgreSQL.
Web Technologies: HTML5, CSS3, Bootstrap , React JS, Express.js, Node JS,Spring Boot, Hibernate, AWS.
Development Tools: IntelliJ IDE, VS Code, Docker, Jenkins, Git, Maven, Postman.
Certifications: AWS Cloud Practitioner, AWS Developer Associate

Experience

Hohmann Labs   **August, 2023 - May, 2024**
Research Assistant   *Bloomington, Indiana*

- Architected an React JS application complemented by a Node.js and Express backend, leveraging MongoDB for data storage, to systematically track and encode behaviors across a varied sample group, leading to a 30% enhancement in data retrieval and analysis speed.
- Seamlessly connected frontend and backend using RESTful APIs, ensuring efficient data flow and functionality.
- Cleaned and processed large Excel files (100+ subjects over 14 days) using Python, Pandas, and NumPy, converting raw data into meaningful data frames.
- Extracted 8 behavioral insights and leveraged Jupyter Notebooks for data exploration, visualization, and reporting.
- Developed a machine learning model to determine the treatment type of a subject based on behavioral insight parameters, classifying them between different treatment Groups.

Tata Consultancy Services.   **August, 2021 - July, 2022**
Software Developer   *Hyderabad, India*

- Elevated website performance through code splitting and Lazy loading using React and Redux; reduced bounce rate by 22% .
- Developed a backend user authentication module, implementing secure password hashing and managing user sessions with JWT, enhancing security for 5,000+ users.
- Collaborated with the testing team to create and execute 50+ comprehensive API test cases, ensuring thorough validation of input, error handling, and both positive and negative scenarios.
- Collaboratively designed the MongoDB database for 15+ data access queries for 5+ entities for a critical backend service with the guidance and support of a senior developer.
- Followed a structured development process, including version control (Git), continuous integration (CI/CD), and deployment strategies.

Projects

Chess Game – Javascript Game Application

- Developed an online multiplayer chess game using React.js, Redis, PostgreSQL, and Node.js, deployed on AWS EC2 with auto-scaling and load balancing, supporting over 10,000 concurrent players with minimal latency
- Planned the system for high availability, ensuring game data persistence in PostgreSQL, allowing games to seamlessly continue even if a server goes down, improving game uptime to 99.95%
- Executed real-time game updates and player interactions using WebSockets, reducing latency to under 100ms for a boosted user experience
- Optimized server performance with Redis for caching recent chess moves, resulting in a 40% reduction in database load and faster game state retrieval times

Bank Of Indiana - Secure Online Banking Application

- Led the creation of a robust online banking platform, harnessing Java, JavaScript, Spring, Hibernate, and MySQL for seamless functionality.
- Managed a cross-functional team of six members, emphasizing teamwork and achieving efficient project completion within two months.
- Implemented robust security measures, including Two-Factor Authentication and SSL encryption, reducing unauthorized access by 30% and enhancing system security by 25%.
- Post-completion, the application underwent rigorous testing by 12 teams, facing various security and feature attacks. It ranked 2nd overall based on security and functionality points.