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Summary

Detail-oriented Software Engineer with a Master's degree in Computer Science and over 3 years of experience in full-stack development, database management, and cloud computing. Proven expertise in JavaScript, Java, Python, C++, and web technologies like HTML, CSS, and ReactJS. Experience with AWS, including EC2, S3, RDS, and Lambda. Demonstrated proficiency in both SQL and NoSQL databases. Adept at working in agile environments, with a track record of improving application performance and optimizing systems. Known for translating complex problems into practical solutions and sharing knowledge by working part-time as a Graduate Teaching Assistant while pursuing Masters degree.

Education

Master of Science in Computer Science | August 2021 - May 2023
George Mason University, Fairfax, Virginia, USA. GPA 3.87

Course Work: Web development, Data structures and Algorithms, Components based software development, Database systems, Decision guidance systems, Data Mining.

Bachelor of Engineering in Computer Science | August 2014 - May 2018
JSS Academy of Technical Education, Bangalore, India. GPA 3.75

Course Work: Object oriented programming, Database systems, Web development, Data structures and algorithms, Embedded systems.

Technical Skills

- **Programming Languages:** JavaScript, Java, Python, C, C++, HTML, CSS, TypeScript.
- **Database:** Microsoft SQL, Oracle SQL, MongoDB.
- **Frameworks & Libraries:** Bootstrap, ReactJS, Node.js, Express.js, jQuery, JUnit, Spring Boot, Hibernate.
- **Cloud computing:** AWS – EC2, S3, RDS, Lambda, DynamoDB.
- **Others:** RESTful, CI/CD, Ajax, JSON, PHP, Kubernetes, Docker, Jenkins, MS Excel, Git, Jira, Unix, Microfocus SBM, MS SSIS.

Work Experience

Software Engineer | Wipro Limited | Bangalore, India | August 2018 - August 2021
Mercedes Benz Client Project — 1 year 9 months

- Actively participated in all aspects of the agile development life cycle, including requirement discussions, design, development, testing, bug-fixing, and maintenance of a web application for the approval/rejection of automobile parts and features.
- Prepared questionnaires and collaborated with the Team Lead to gather requirements in order to design and develop web pages in accordance with the application's requirement of having different user access levels for different groups of users.
- Developed responsive front-end web pages using HTML, CSS, JavaScript, ReactJS, Bootstrap, Ajax, and jQuery, ensuring seamless adaptability across different devices by utilizing CSS grid and percentage-based object sizing.
- Implemented lazy loading and caching techniques to optimize media loading times and enhance user experience, especially on slower internet connections.
- Created and integrated RESTful web services API with MongoDB to support data exchange between clients and the system.
- Utilized Node.js for server-side scripting to consume RESTful web services.
- Managed the AWS EC2 server for deployment and scaling of the application, achieving a 25% improvement in response time and a 20% improvement in page loading time after migrating to AWS S3 for storing and retrieving content, as measured by Pingdom and GTmetrix tools.
- Conducted rigorous manual testing to extensively comply with client expectations while making sure the application is as bug-free as possible.
- Received appreciation and accolades for delivering the application on-time and with a high degree of satisfaction, and also helped in securing new projects from the client.

State Street Corporation Client Project | 1 year 3 months

- Analyzed performance data of financial transactions by creating Microsoft SQL Server Integration Services (SSIS) packages using SQL extensively, focusing on the percentage of times that Service Level Agreement (SLA) times were not met.
- Filtered out transactions that did not meet SLA times and calculated the ratio of faulty transactions to total transactions, providing actionable input for different teams to analyze and develop action plans for system improvement.
- Developed web APIs using Java/J2EE, Spring, Hibernate, REST, HTML, and XML to support the application's functionality.
- Actively participated in Agile scrum methodology, utilizing Jira and Confluence for project management and engaging in daily and weekly interactive discussions with clients and team members.

- Created test cases for unit testing using JUnit and performed integration and system testing to ensure the application's reliability and performance.
- Provided support and maintenance of the application by quickly identifying and resolving bugs, such as modifying SQL queries to support column names in languages other than English by using collation and unified character sets.

Graduate Teaching Assistant | George Mason University – Department of Computer Science | January 2022 – May 2023

- Assisted professors in teaching undergraduate courses, including Software Engineering for WWW, Database Management Systems, and Object-Oriented Programming using Java, catering to students with varying levels of understanding by revising fundamental concepts before introducing more complex topics.
- Conducted lab sessions to demonstrate and teach various software development and database technology concepts, using practical examples to illustrate complex ideas, such as explaining inheritance by revisiting classes and objects before showcasing parent-child class relationships.
- Taught complex topics, such as time complexity, by developing the Fibonacci program using recursion & iteration methods to demonstrate linear and exponential time complexity through program performance.
- Graded assignments and provided extensive feedback to students, offering guidance on code improvement and suggesting best programming practices to enhance their understanding and skills.

Projects

Optimized Shipping Costs using Decision Guidance System

- Developed an analytical model using Python to optimize shipping costs for shipping companies, involving suppliers, manufacturers, and their transportation orders.
- Ensured data consistency and accuracy by verifying location pairs and associated data, eliminating discrepancies that could impact the model's performance.
- Designed the model to select the best combination of supplier and receiver based on shipping cost per pound for a particular item, considering factors such as distance and item availability.
- Implemented a decision-making process that prioritized the closest supplier with the required item, while also considering the next closest supplier if the preferred one did not have the item in stock, resulting in optimal shipping cost solutions.

Academic Department Website

- Developed responsive web pages for an academic department website, including introduction, department information, and a survey form that accepts user inputs and performs dynamic validations on the data to ensure compliance with required input formats.
- Utilized HTML, CSS, JavaScript, ReactJS, and jQuery for front-end development, and Amazon AWS EC2 and S3 for cloud hosting.
- Ensured responsiveness and user-friendliness by implementing CSS grid and percentage sizes for dynamic adaptability across different devices, as well as caching techniques for improved response times.
- Focused on simplicity and ease of navigation in the design, incorporating user feedback to create a smooth and intuitive user experience.

Awards

Outstanding Academic Achievement Award – Earned in recognition of achieving an exceptional GPA of 3.87 in Masters, placing among the top 10% of the class.