Jayavani Akkiraju

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Professional Experience

Software Engineer Intern, WATI 						Aug 2023 – Present
- Focused on **React** components customization and integration of **RESTful APIs** for a client application, providing key support and ensuring efficient data integration.
- Added a new feature to the network graph using **vis.js**, enhancing user engagement by enabling personalized logins and custom configuration saving options.
- Automated end-to-end test scripts using **Selenium** in **Python**, accelerating software testing process by 25% and improving overall product quality.
- Engineered and deployed a client-side data visualization component utilizing **HTML, CSS, and JavaScript**.
- Implemented a **React** component for exporting **API** data to **Excel** for file generation and download.

Developer, Tata Consultancy Services 					Jan 2021 – Jan 2022
- Revamped the design of the supply chain management platform using **Angular**, tailoring features and functionalities to meet precise client requirements.
- Designed a team-focused employee survey system using **HTML5, CSS3, JavaScript, Node.js, and MySQL**, enhancing feedback collection and analysis.
- Integrated advanced security features into **Spring Boot** applications, including authentication and authorization mechanisms, resulting in a 30% reduction in security vulnerabilities and ensuring compliance with industry standards.
- Employed advanced indexing strategies and query optimization techniques in **MySQL**, resulting in a 25% reduction in query response times and enhancing overall system performance.

Software Engineer, CtrlS 						Jan 2020 – Dec 2020
- Delivered support for over 40 clients in a data center environment, handling different severity-level tickets to resolve server issues promptly.
- Enhanced client-side **AWS EC2** deployments by optimizing instance sizes and types, significantly improving performance and cost-efficiency.
- Implemented secure **VPN** solutions for various clients, enhancing their network security and enabling remote access for their teams.
- Developed 10 **RESTful API** endpoints on the backend using **Spring Boot** to fetch consumer details regarding the order, facilitating seamless communication between the front end and back end.

Education

Master of Science in Computer Science, University at Buffalo 			GPA: 3.7 — May 2023
Courses: Algorithm Analysis, Database Management, Distributed Systems, Machine Learning, Deep Learning
B.Tech in Information Technology, Jawaharlal Nehru Technical University 		GPA: 3.8 — Sep 2020
Courses: Web Development, Operating Systems, Data Structures, Networking, Design Patterns, Cloud

Technical Skills

Programming Languages: Java, Python, C
Web Dev, OS, Databases: HTML, CSS, JavaScript, Typescript, RESTful API, jQuery, JSON, XML, React, Angular, Node, MySQL, PostgreSQL, MongoDB, Linux, Windows Server, Redux, Vue.js
Cloud Technologies: AWS S3, AWS IAM, AWS EC2, AWS SQS, AWS Lambda
Tools and Software: Visual Studio Code, Git, Selenium, CI/CD, Docker, Eclipse

Projects

Library Management System: 				*SpringBoot, PostgreSQL, HTML*
Implemented a library management system for the university, utilizing PostgreSQL to track and manage 10,000+ books and transactions. Applied Query optimization techniques including indexing, enhancing efficiency by 80%.
User Management Application: 				*React, MongoDB, Express.js, Node.js*
Developed a MERN stack user management app, utilizing React for UI, Express.js for server logic, MongoDB for data storage. Integrated tools like React Router, Axios, and Bootstrap for routing, API communication.
Consensus in Distributed Systems: 		*Docker, SpringBoot, Vue.js, HTML, CSS, PostgreSQL*
Built an Expense Tracker System using Spring Boot, PostgreSQL, and a 5-node Docker cluster for fault-tolerant, secure log replication with RAFT protocol. Improved expense tracking, ensuring high system availability.