

# 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.
- Skilled in secure web development practices, adept at troubleshooting complex application workflows and performance tuning to enhance system efficiency and security.
- 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, Software Development, Networking

## Technical Skills

**Programming Languages:** Java, Python, C

**Web Dev, OS, Databases:** HTML5, CSS3, JavaScript, HTTP, REST API, JSON, XML, React, Node.js, Angular, MS SQL, MongoDB, Spring Boot, Linux, Windows Server

**Cloud Technologies:** AWS S3, AWS IAM, AWS EC2, AWS SQS, AWS CloudFormation, Azure

**Tools and Software:** Visual Studio Code, Git, Selenium, CI/CD, Docker, Agile methodologies

## Projects

### Library Management System:

*SpringBoot, PostgreSQL, HTML*

Implemented a library management system for the univeristy, 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*

Implemented 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.