SHASHWENTH MURALIDHARAN
Software Engineer
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Linkedin | GitHub

EDUCATION

Rutgers University, Master Of Science in Computer Science   New Brunswick, NJ
GPA: 3.87   May 2024

Sri Sairam Engineering College, Bachelor of Engineering in Computer Science   India
CGPA: 9.04   Jun 2022

SKILLS

Programming Languages:	Java, Python, C, HTML, CSS, JavaScript, SQL
Libraries/Frameworks:	Bootstrap 4, Node.js, SpringBoot, React JS, Redux, Angular, Java Servlets, JDBC, Express.js, Django
Tools / Platforms:	Apache Tomcat, Tableau BI, Eclipse IDE, Jasmine Testing, Postman, Docker, Git, GitHub Dsktop
Databases:	MySQL, H2 Database, JPA, PostgreSQL

PROFESSIONAL EXPERIENCE

SmartKnower | Software Engineer Intern   Chennai, India | Feb 2021 - Mar 2021
- Engineered and deployed scalable solutions: Actively contributed to a team of 15 engineers, designing and implementing scalable code for web applications, ensuring efficient performance.
- Executed comprehensive quality assurance testing: Conducted unit, integration, and system testing to ensure code quality and functionality. Utilized automated testing tools and frameworks to streamline the testing process.
- Resolved critical technical issues: Collaborated with cross-functional teams to troubleshoot and resolve over 30 critical technical issues, leading to a 25% reduction in application crashes. Performed root cause analysis and implemented effective solutions.
- Employed Agile Development Practices: Participated in daily stand-ups, sprint planning, and retrospective meetings as part of the Agile development process. Contributed to backlog refinement, sprint goal setting, and implemented CI/CD and TDD practices to ensure timely delivery of high-quality features.

PROJECTS / OPEN-SOURCE

Survey Management System - (Present) | Link   *Spring Boot, React, Java, JavaScript, HTML, CSS, Bootstrap, H2 Database*
- Implemented RESTful APIs with Spring Boot to handle survey creation, question management, and user authentication using JWT tokens and Spring Security. Utilized Spring Data JPA and Hibernate for database interactions with an H2 in-memory database.
- Integrated Axios for asynchronous HTTP requests and Spring Scheduler for automation. Employed Git for version control and GitHub for repository management, facilitating team collaboration and project tracking.
- Developing a user-friendly frontend application using React.

Auction Website | Link   *Java, JSP, JDBC, MYSQL, Tomcat*
- Developed an Auction website using Java, JSP, and MySQL database for storing information. Utilized JDBC to connect JSP to the database. Managed over 15 tables in the DB and 25 landing pages providing fully automated services for users.
- Authored 55 JSP and Java files providing users with various REST API's. Automated auction features using Java Timer package that resets every 60 seconds. Executed report generation service using the ItextPdf package with 6 different criteria.

Custom Pthread, Malloc, File System | Link   *OS, Memory and Thread Management, Cache, C, Linux*
- Developed custom user-level libraries using C that replicated the functionalities of built-in C packages like pthread, malloc, and file-system lib with 40% reduced code duplication.
- Led a team of 2 to implement memory management and data structures management. Collaborated in writing scalable code for scheduling algorithms. Tested each algorithm with around 100 test cases to achieve 90% efficiency.