RASOOL MALIK VEMPALLI

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# CAREER PROFILE

Self-motivated and experienced **Software Engineer** focused on designing and developing robust, scalable enterprise applications. Skilled at full-stack development of web applications, enhancing microservices, object-oriented programming, requirement and complexity analysis, problem-solving, communication, and interpersonal skills.

# EDUCATION

**Master’s in computer science,** University of North Texas – **3.9 GPA Jan 2023 – July 2024** Software Engineering, Usability Testing, DB Fundamentals, Wireless Networks, Computer Algorithms, Computer Networks.

**Bachelor’s in electronics & communication Engineering,** MITS, India **– 3.8 GPA Aug 2016– July 2020**

# WORK EXPERIENCE

**Graduate Research Assistant/Java Full Stack Developer – University of North Texas Aug 2023- July 2024**

* Developed a scalable Apartment management system and Product management system application using Java and Spring Boot, focusing on maintainable architecture, code reusability, and adherence to object-oriented principles.
* Implemented SDLC best practices, including rigorous code reviews, version control with Git, and code quality assessments using SonarQube.
* Managed deployment with Docker and Kubernetes on AWS, utilizing Elastic Kubernetes Service (EKS) for scalability, reliability, and resource efficiency.
* Monitored and optimized application performance using logging and monitoring tools, resolving bottlenecks to maintain high reliability under varying loads.
* Collaborated closely with researchers, developers, and stakeholders, effectively communicating technical concepts and aligning development with research goals.

**Software Developer** *–* **HCL Technologies India Pvt** **Ltd** ,Chennai, India **Nov 2020 – Dec 2022**

* Developed and maintained backend systems using REST APIs for a credit card fraudulent system.
* Enhanced microservices using Java for existing RESTful APIs with Agile methodologies, utilizing Vertx, Spring Boot, and Hibernate frameworks.
* Developed new microservices and deployed them in AWS ECS and Bitbucket for version control.
* Actively participated in requirement gathering, analysis, design, development, and integration.
* Deployed microservices in the CI/CD pipeline and provided support to fix issues in UAT and production using Splunk and Dynatrace.
* During migration, replaced legacy batch jobs with Schedulers and Kafka, and migrated applications from OpenShift Appcanvas to AWS.
* Conducted unit testing with JUnit, Mockito, and PowerMockito.
* Utilized Sonar for code quality analysis and the Locust framework to check API performance.
* Developed Python scripts for an automated test framework using the ROBOT framework for credit fraudulent web services.
* Migrated microservices by understanding legacy C/C++ code and designing new microservices with Lucid chart.
* Led a global team of 5 associates to successfully deliver application rollouts with client customizations and communications via Slack.
* Completed Jira tasks in biweekly sprints following Agile methodology, resulting in a 40% increase in efficiency and performance

**Full Stack Java Developer Internship Experience – SoftTown**, Chittor, India **Oct 2019– Oct 2020**

* Designed and applied a Spring Boot Microservice from scratch, writing comprehensive Unit Test cases using Mockito, increasing testing efficiency by 30%.
* Refactored legacy applications using Spring MVC, Spring Boot, Hibernate, JPA, and MySQL, improving performance by 25% and reducing code complexity.
* Built a customized online assessment platform using Java, Spring Boot, Angular, and Oracle Cloud, reducing assessment creation time from 1 day to just 2 hours, increasing productivity by 80%.
* Actively participated in code review sessions, ensuring 100% adherence to coding standards and improving code quality across the team.
* Identified and implemented opportunities for refactoring legacy codebase, enhancing maintainability and scalability by 40%.

# TECHNICAL SKILLS

**Languages** – Java, C, JavaScript/TypeScript, SQL, HTML5, CSS, XML, JSON, PHP.

**Tools & IDEs** – J2EE, Spring boot, Hibernate, Vertx, JSP, Servlet, Spring MVC, Spring Core, Spring Security, Spring Data JPA, Microservices, Multithreading, Junit, JDBC, Maven, Swagger, REST API, Angular, JPA, Apache Tomcat, CICD, Jenkins, Git, GitHub, Bootstrap, AWS, Robot framework, Splunk, Dynatrace, Locust, Mockito, Power Mockito, Log4j, Lombok, Jira, OpenShift, JQuery, Agile, Automation Testing, Scrum, Kafka, Docker, Slack, UML, MATLAB, Bitbucket, Node JS, Design Patterns, Confluence, Kubernetes, React JS, Integration Testing

**Databases** – relational and NoSQL databases, MySQL, Microsoft SQL, PostgreSQL, Oracle, MongoDB.

# PROJECTS

* **Blood Bank Management System:** Developed a web interface allowing new users to register and log in, enabling them to search for blood groups in specific locations and request samples. Users can also donate blood, with both requests subject to admin approval.

**Technologies used:** Spring MVC, Hibernate, HTML, CSS, JavaScript, JSP, Log4j, and MySQL.

* **Airport Management System:** Built a web interface to manage plane details in a database, allocate pilots to planes, and assign planes to terminals. This system streamlines airport management by presenting details at a single click. **Technologies used:** Spring Boot, Hibernate, Angular, Spring Data JPA, Lombok, and MySQL.

# ACADEMIC ACHIEVEMENTS & CO-CURRICULAR ACTIVITIES

* Was awarded $4,000 Graduate Assistantship every semester 2023-2024.
* Won 2nd prize in technical quiz conducted by my college(MITS) out of 400 people.
* Presented Poster presentation conducted on the Engineer’s Day celebrations during engineering.
* Attended “Developer Weekend Conference” in Bangalore on “Internet of Things”.
* Attended workshop on “Artificial Intelligence” in BITS Pilani, Hyderabad.
* Presented presentation regarding CarbonNano electrons at Madanapalle Institute of Technology and Science and won first prize.