

SATISH KUMAR LOKAVARAPU

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Education

Northeastern University, Boston, USA

May 2024

Master of Science in Information Systems,

- Relevant Coursework: Application Engineering and Development, Web Design and User Experience Engineering, Network Structures And Cloud Computing, Object Oriented Design, Career Management for Engineers

Motilal Nehru National Institute of Technology, Allahabad, India

July 2020

Bachelor of Technology in Information Technology

Technical Skills

Programming Languages: C | C++ | Java | Javascript | Type Script | Python

Web Technologies: HTML | CSS | Sass | Bootstrap | JavaScript | jQuery | Express | Node.js | React | Redux

Cloud Technologies: Amazon Web Services (AWS) | DigitalOcean | Terraform | Docker | Kubernetes | Jenkins

Databases: MySQL | MongoDB | PostgreSQL | Oracle

Frameworks: React | node | Spring | Spring Boot | JPA | Spring Security | Hibernate | Oracle JET | KnockoutJs | Java Swing | JavaFx

Developer Tools: Git | Docker | VsCode | IntelliJ | Eclipse | NetBeans

Work Experience

Oracle Financial Service Software, Mumbai, India

September 2020 - November 2021

Associate Application Developer [Java, ReactJS, Oracle, Oracle JET, KnockoutJS, JQuery, Spring, Spring Boot]

- Developed responsive and user-friendly UI screens using Oracle JET and KnockoutJS for timely alerts and notifications, and streamlined division code assignment process resulting in increased efficiency and reduced human error
- Optimized a String Matching algorithm using dynamic programming techniques, resulting in a 60% reduction in execution time and improved performance for large datasets
- Created highly interactive table displays for data items, incorporating advanced UI features such as filtering, sorting, and pagination. This improved data visibility and usability for end-users
- Implemented Continuous Integration (CI) and deployed services using Jenkins and WebLogic, ensuring timely and high-quality releases. Expertise in debugging and issue resolution for UI screens, resulting in high system stability and user satisfaction

Academic Projects

MedConsult App [JavaScript, ReactJS, ExpressJs, Node, MongoDB, REST APIs, Redux]

October 2022-December 2022

- Developed a full-stack MERN web application for managing doctor appointments, incorporating a search feature resulting in a 20% time savings for patients.
- Implemented JWT authentication, email verification, notifications, and admin CRUD for efficient resource management
- Enabled doctors to diagnose and upload prescriptions, improving medical record-keeping efficiency

Library Management System [Java, SQL, Spring Boot, Spring MVC, Spring JPA, ReactJS,, REST APIs] October 2022-December 2022

- Developed a highly efficient and scalable library management system using Java, Spring, Spring MVC, Spring-Boot, and ReactJs, resulting in improved book lending and inventory management processes
- Implemented role-based authentication and authorization for the system, providing secure access to critical features and data for different user types, resulting in increased security and improved data management
- Improved library system by developing order tracking with overdue return filtering, downloadable invoice generation, and optimizing performance with Spring Data JPA

Cloud Application [Java, Spring, Spring Boot, REST APIs, AWS, EC2, RDS, CloudWatch, Terraform]

January 2023- April 2023

- Developed a web application utilizing Spring and Spring-Boot in the backend, with RDS MySQL for database management and S3 for secure and scalable file storage
- Implemented fault tolerance by spawning instances in multiple availability zones and by using auto-scaling and load-balancing
- Implemented CI/CD using Github Actions, containerization using HashiCop Packer, IaaS setup using Terraform which was used to deploy, monitor and configure the web application on AWS using various services such as IAM, VPC, EC2, Route53, RDS, S3, CloudWatch, ELB, ASG
- Implemented best practices for deploying web applications such as restricting access to the RDS instance to the application, restricting access to the application to the load balancer, using IAM roles and policies and using TLS for the application