MONICA SRIRAMREDDY

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EDUCATION

NORTHEASTERN UNIVERSITY   **Boston, MA**
Master of Science in Information Systems   **May 2025**
Relevant Courses: Application Engineering and Development, Web Design and User Experience Engineering, Concepts of Object-Oriented Design, User Experience Design and Testing

THE OXFORD COLLEGE OF ENGINEERING   **Bangalore, India**
Bachelor of Engineering in Computer Science   **August 2021**

TECHNICAL SKILLS

Programming Languages: Java, Javascript, Python, C++
Frameworks: Spring Boot, Flask, Node.js, FastAPI, React, Angular
Web Development: Express.js, HTML, CSS, Sass, Agile Methodologies, jQuery, Bootstrap, JSON Web Tokens (JWT), Microservices
DevOps Tools: AWS, Unix/Linux, Azure DevOps, Git, Jenkins, Docker, Kubernetes
Databases: SQLite, MySQL, MongoDB, PostgreSQL

EXPERIENCE

CELESTIAL V SOLUTIONS, Bengaluru, India
Software Developer Intern,   **March 2021 - August 2021**
- Collaborated in a diverse team environment to architect and develop a **cloud-based stock visualization application**, employing the **MERN (MongoDB, Express.js, React, Node.js) stack**
- Assessed system requirements to formulate robust backend structures for **high-traffic web applications**, achieving a **40% enhancement in system efficiency**
- Worked with a team through the development of **RESTful APIs,** intricate database integrations, and the harmonization of backend logic with frontend requirements. This collaborative effort significantly elevated application performance
- Optimized and refined the existing codebase through the implementation of advanced algorithms, **yielding a notable 50% reduction in server response times**
- Led comprehensive testing and debugging initiatives that led to a **remarkable 30% reduction in system downtime**
- Applied containerization techniques by **Dockerizing the application**, paving the way for scalability, and subsequently **deployed it on AWS ECS**, showcasing expertise in optimizing service orchestration

PROJECTS

INSTAGRAM CLONE | React, Node.js, Express.js, MongoDB, Expo, JWT
- Developed key features akin to Instagram, including photo/video uploads, user authentication processes and profile management systems
- Integrated Firebase for secure user sign-in and data storage
- Utilized a ReactJS-based administration panel to facilitate effortless application management and monitoring
- Implemented a NodeJS backend to guarantee efficient data handling and communication between the app and server

RENTAL MANAGEMENT SYSTEM | Java, Java Swing, Mvc Architecture, SQL
- Designed and integrated strong security measures for user authentication and authorization, fortifying transaction security and data privacy
- Employed Java's sophisticated security frameworks to safeguard sensitive user data and thwart unauthorized access
- Developed an intuitive and user-friendly GUI using Java Swing, which offered a seamless and interactive experience for both customers and administrators
- Crafted an interactive interface featuring real-time availability checks, variable pricing models and detailed rental history tracking, greatly enhancing user interaction and operational clarity

EXPENSE TRACKER | React, Swagger, Node.js, Express.js, MongoDB, JWT
- Created a comprehensive full-stack application that empowers individuals and groups to monitor their expenses and visualize spending patterns using charts
- Leveraged Node.js and cron jobs to automate the generation and delivery of monthly spending reports to users, along with notifications when budgets were exceeded
- Established individual sessions within the application, enabling groups to record and monitor their personal expenses and budgets effectively

YOUTUBE CLONE | React, Node.js, Redux, Express.js, Firebase, Saas, OAuth
- Maximized the powerful data rendering capabilities of React to effectively manage video streams, user interactions, and content updates
- Integrated the YouTube API to fetch genuine video content, channel information and other functionalities, replicating the core features of YouTube
- Executed integration of OAuth and Firebase Auth, ensuring robust user authentication and streamlined profile management
- Incorporated Redux for comprehensive state management, ensuring seamless and predictable state transitions throughout the application