Madhuri Choula|React.JS Full Stack Engineer

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Summary
Summary : I am a Software Engineer with 4+ years of experience working on real-world applications using JavaScript, Node.js, React, and AWS. Most of my work involves building backend APIs and serverless services with AWS Lambda, SNS, and SQS, and connecting them with clean and responsive React-based user interfaces. I've spent a lot of time fixing production issues, improving error handling, and making sure systems remain stable and backward compatible. I regularly write unit tests using Jest, work with CI/CD pipelines in Jenkins and GitHub Actions

Skills
Languages: JavaScript (ES6+), Core Java, C, HTML5, CSS3
Frontend: React.js, Redux, React Hooks, React Router, Component Lifecycle, State Management, UI/UX Development
Backend and Database: Node.js, Express.js, RESTful APIs, Event-Driven Architecture, MongoDB, SQL, JSON, XML
Cloud & DevOps: AWS (Lambda, SNS, SQS, CloudWatch), Jenkins, GitHub Actions, CI/CD Pipelines
Testing & Quality: Jest, Unit Testing, Test Coverage (85%+), ESLint, SonarLint, Code Quality Standards
Monitoring & Debugging: Kibana, Chrome Developer Tools, Logging, Error Handling, Retry Mechanisms
Tools & Practices: Git, Agile, Scrum, Test-Driven Development (TDD), Branching Strategies, Code Reviews

Work Experience
Cognizant Technology Solutions India, Hyderabad
Associate Software Engineer (Sep 2022 – Present) **Sapphire Award -** *(Raising the bar)*
- Developed and maintained 10+ AWS Lambda functions, serverless backends that manage the infrastructure
- Demonstrated deep understanding of advanced JavaScript concepts including closures, scope chain, promises, asynchronous programming, and ES6+ features
- Built comprehensive unit test suites using Jest, achieving 85%+ code coverage and reducing production defects
- Developed interactive and stateful React components using lifecycle methods, hooks, state, props, and event handling, delivering responsive Interfaces
- Optimized high-traffic content listing pages (10k+ media records) using React.memo, useMemo, and useCallback to prevent unnecessary re-renders
- Used useMemo to cache derived state for recommendation carousels and trending sections.
- Applied React.memo to reusable components (media cards, thumbnail grids) to improve scroll performance.
- Improved page load responsiveness by 30% during peak streaming hours
- Reduced unnecessary re-renders in video catalog components by memoizing expensive filtering and sorting logic.
- Resolved SQS message failures, retry issues, and CloudFormation template errors to ensure backward compatibility and reliable deployments
- Configured Amazon SQS queues to process background tasks such as media upload processing and email notifications, implemented message producers in Node.js, and handled retries using dead-letter queues (DLQ) for failed messages
- Supported production releases, including branching strategies, data migrations, and automated deployments using Jenkins, resulting in a 20% faster release cycle
- Actively participated in Agile Scrum methodology, contributing to daily stand-ups, sprint planning, sprint reviews, retrospectives, and release planning to ensure timely delivery

Full Stack Developer Intern (Mar 2022 - Sep 2022)
- Developed responsive single-page applications using React.js and React Router
- Implemented state management using Context API / Redux Toolkit
- Consumed REST APIs using Axios and handled asynchronous data fetching
- Collaborated in pair programming sessions, gaining hands-on experience with Agile methodologies and Git workflows
- Improved strong soft skills in communication, teamwork, time management, and consistently meeting deadlines

Awards and Certificates
- Amazon Web Services Cloud Practitioner*(Credentials)*
- **Sapphire Award -** *(Raising the bar)* -Promoted to Associate *Software Engineer Cognizant Technology Solutions*
- NPTEL - C Programming Foundation*(Credentials)*
- Programming Foundations with JavaScript, Html and CSS *(Credentials)*
- NPTEL – Programming in Core Java - Ranked top 2%

Education
- **MVSR Engineering College, Hyderabad**
  (June 2018 - May 2022)
  Information Technology
  CGPA : 8.96/10 (Awarded Gold for Merit)
- **Certificate of Merit***(Gold Medal in Academics)*
  Issued by Osmania University *(Credentials*