Madhavi Jaival

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EDUCATION

Master of Science |California State University, Northridge, USA **Jan 2021 – Dec 2022**
Computer Science **GPA: 3.6/4.0**
Bachelor of Engineering | Savitribai Phule Pune University, India **Aug 2016 - Jul 2019**
Computer Engineering **GPA: 7.5/10**

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Java, Python
Technologies and Frameworks: Node.js, JSON, HTML 5, CSS, Vue.js, React, Agile, REST APIs
Databases: MySQL, DynamoDB, SQL
Cloud Technologies: AWS EC2, AWS S3, AWS Lambda, AWS API Gateway, AWS DynamoDB
Tools: Git, Confluence, Trello, Figma, IntelliJ IDEA, Eclipse, VScode, Glitch, hey, Serverless-artillery

PROFESSIONAL EXPERIENCE

Full Stack Developer | HCL Tech (Contract) | Remote, USA **September 2022 – Present**

- Design and develop the front-end of a sales management system using React JS, HTML, CSS, and JavaScript.
- Utilize React JS and related libraries to implement efficient and performant user interfaces and components.
- Ensure compatibility with different browsers and devices and implement responsive web designs using CSS and HTML.
- Optimize website performance and loading time by implementing best practices such as code splitting, lazy loading, and caching.
- Integrate with the AWS services such as DynamoDB, Lambda, and S3 Bucket to store and manage sales data.
- Validate API endpoints and ensure consistent performance using Postman.
- Collaborate with the team to add new features and continuously improve the system.

Software Developer Intern |Submitlt | Remote, USA **January 2022 – August 2022**

- Worked on front-end development using Vue.js to create fast and responsive user interfaces with smooth transitions and animations.
- Worked with CSS pre-processors like Sass and Less to implement styles and improve maintainability.
- Developed a scalable backend using Prisma, MySQL, and TypeScript to manage varying levels of traffic.
- Deployed applications on AWS ECS Fargate using Docker, ensuring efficient scaling and resource utilization.

Full Stack Developer|Pravel Solutions | Remote, India **January 2019 – March 2020**

- Developed the backend of the movie review website using Node.js, and PostgreSQL as the database.
- Developed the frontend of the website using React.js, Bootstrap or Material UI.
- Developed and maintained the website's pagination functionality to allow users to browse through large amounts of movie data.
- Implemented RESTful APIs to handle HTTP requests and responses for movie and user data.
- Worked with third-party APIs such as IMDb or The Movie Database to fetch additional movie data and integrate it into the website.
- Conducted code reviews and provided constructive feedback to other developers to improve code quality.

ACADEMIC PROJECTS

Chaos Engineering in the Cloud [GitHub Link] (JavaScript, AWS Lambda hey, EC2, AWS S3, DynamoDB, API's, Node.js)

- Developed web-service microbenchmarks using Lambda functions and performed load tests to study the performance response under controlled chaos experiments.
- Analysed results and discovered that under heavy client load, early failure can improve response time by 36.5%.

Stream Search Web Application [GitHub Link] (JavaScript, HTML, AWS Route 53, CSS, AWS S3, Agile)

- Implemented a web application using the Scrum framework to simplify the process of selecting content from multiple streaming services.
- Used AWS Route 53 to purchase the domain and route traffic to the client-side entry point.
- Developed the backend code using AWS Lambda, which is called when the frontend application is loaded by the client or when the user clicks the search buttons.

PRESENTATIONS AND PUBLICATIONS

Serverless Cloud Functions - Opportunity in Chaos

- Published by IEEE Computer Society's CPS in the proceedings of the 2022 International Conference on Computational Science and Computational Intelligence (CSCI'22), December 14-16, 2022.