**RAKESH RAVULA**

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**Front-End Development:** Proficient in **React.js, Next.js,** and **Vue.js** for building responsive and dynamic user interfaces, with expertise in React Hooks for efficient state management.

**Back-End Development:** Skilled in **Node.js, Spring** and **Express.js** to create robust server-side applications, implement **RESTful APIs**, and handle server-side logic.

**Database Management:** Experienced in working with various databases, including **SQL Server, ORACLE,** and **MongoDB** databases, for efficient data storage and retrieval.

**AWS Expertise:** Hands-on experience with AWS services, including **EC2, Lambda, S3, RDS, VPC, IAM,** and **CloudWatch**, for scalable and reliable cloud-based solutions.

**Continuous Integration/Continuous Deployment (CI/CD):** Proficient in setting up **CI/CD** pipelines using tools like **Jenkins** and **Git**, ensuring efficient and reliable application delivery.

**Web Technologies:** Skilled in J**avaScript, TypeScript, HTML5, CSS3, SCSS**, and **jQuery** for crafting modern and visually appealing web applications.

**User-Centered Design:** A passion for creating user-friendly interfaces and implementing user-centered design principles to enhance the overall user experience.

**Security:** Knowledge of security practices, including **OAuth, JWT,** and **OWASP** top 10 techniques, to fortify applications against vulnerabilities.

**Blockchain and IoT:** Familiarity with Blockchain, Solidity, Dapps, IOT, Embedded C, and Arduino UNO, enabling innovative solutions in emerging technologies.

**Education**

**Master of Science in Computer Science** | [UAB] | [Birmingham] | [2023]

**Relevant coursework:** Software Engineering, Data Structures, Algorithms, Database Management

**Bachelor of Technology in Computer Science** | [Lbrce] | [Vijayawada] | [2019]

**Relevant coursework**: Object-Oriented Programming, Web Development, Operating Systems

**Certifications:** Front-End Developer Certification (Meta) , (Java, SQL, C++, Javascript, Node.js) (Sololearn)

**Projects:**

**Alexa Food Tracker Skill -** Developed an innovative Alexa skill for convenient food consumption and tracking. (JavaScript, AWS Lambda, Alexa Skills Kit)**.**

**XHTML to JSON Conversion Tool -** Created a tool for accurate data transformation from XHTML to

JSON. (Node.js, JSON, data transformation algorithms).

**Findogy -** Dog Matching App with advanced filtering options for breed, location, and age, providing users with a seamless experience in finding their ideal canine companions. (Next.js, Rect.js, Typescript)

**Profile Website:** Developed my personal website integrated with a Headless CMS from Sanity, enhancing content management efficiency. (Sanity CMS, React, Next.js, Typescript, Jest).

**Access Key Automate Tool:** Developed a Node.js-based tool in JavaScript for automating AWS CLI access key management. (Javascript, Express, Node.js, puppeteer).

**Professional Experience**

**Full Stack Developer - UAB School of Health Professions** May 2022 - April 2023

* Developed innovative solutions in web development for personalized health advice, integrating user-centered features aligned with targeted health objectives.
* Implemented Agile Scrum methodologies and continuous enhancement of application quality and performance through rigorous end-to-end testing, monitoring, and maintenance.
* Integrated Twilio Flex module to streamline the daily call survey process, enhancing user communication.
* Created a user-friendly feature using ASK (Alexa Skills Kit) that allows users to conveniently log their food intake using an Alexa device.
* Orchestrated the deployment and hosting of applications within Docker containers on AWS, optimizing deployment procedures.
* Employed CI/CD tools such as Jenkins and Git to establish a robust and streamlined CI/CD pipeline, ensuring efficient and dependable application delivery.
* Implemented RESTful services to facilitate seamless communication and utilized jQuery for efficient DOM manipulation.
* Led the adoption of Test-Driven Development (TDD) practices, achieving a substantial 90% test coverage milestone using Jest.
* Enhanced application security with OAuth and JWT, employing OWASP top 10 techniques to fortify code against vulnerabilities.
* Implemented CMS to streamline and enhance content management processes, boosting efficiency and organization within the project.
* Leveraged React hooks and Context APIs to deliver responsive and user-friendly applications with efficient state management.
* Implemented JWT (JSON Web Tokens) for robust and secure authentication and authorization in the application.

**Full Stack Developer - ValueLabs, Hyderabad** May 2019 – Dec 2021

Pearson - eBook

* Developed an innovative application that processes ePub file inputs, achieving seamless conversion into interactive online eBooks with remarkable efficiency.
* Employed web scraping tools, including Cheerio, in conjunction with custom algorithms on the Node.js platform to achieve accurate data transformation.
* Successfully executed a pivotal Proof of Concept (PoC) within the project, focusing on effectively managing anchor reference links in JSON elements.
* Conducted an additional impactful PoC by extensively researching OOXML tags, demonstrating the conversion of Word documents into eBooks.
* Applied graph traversal techniques to efficiently navigate complex course files, ensuring accurate extraction and parsing of individual elements.
* Applied GraphQL API programming in tandem with Node.js capabilities, including streams and asynchronous processing.
* Successfully migrated application and infrastructure to the AWS cloud by utilizing AWS Services.

Astro-ARP Digital Ads Platform

* Designed a web app for seamless registration and payment for ad placements across Astro platforms.
* Utilized Node.js for the backend, integrating with SQL as the database technology.
* Introduced dynamic content loading based on network speed, enhancing user experience.
* Orchestrated the deployment of the entire application on an AWS server.
* Implemented interactive dashboards within using Material UI, for insightful metrics and controls.
* Integrated REST APIs to facilitate seamless communication.
* Employed PL/SQL to streamline database operations, enhancing data integrity and retrieval speed for various application functionalities.
* Implemented Jest for unit testing, ensuring code quality and reliability.
* Ensured effective session management for enhanced security and user experience in the application.