Jay Rana

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TECHNICAL SKILLS

Languages	:	JavaScript, Typescript, C#, Java, Python, HTML5, CSS3, C/C++, SQL
Frameworks/Libraries	:	NodeJS, React, ASP .NET, Spring Boot, Express.js
Databases	:	MySQL, MongoDB, DynamoDB
Tools & Technologies	:	AWS, Azure, Docker, Terraform, Git/GitLab, Jenkins, Postman, Maven, VS Code, IntelliJ IDE, MS Teams, Outlook, Word and Excel
Concepts	:	Agile Methodologies, SQL and NoSQL databases, TCP/IP Protocols, Software Development Life Cycle (SDLC), CI/CD, RESTful APIs, Object Oriented Programming (OOP), Test Driven Development (TDD)

GRADUATE PROJECTS

TrimTrek | *Java, Spring Boot, React, MySQL, JUnit 5, CI/CD, Git, SOLID* | ⌗   *May 2023 - Aug 2023*
- Developed a comprehensive Barber Booking and Scheduling App designed to facilitate easy and efficient appointment scheduling with barbers.
- Applied Observer, Decorator, and Factory design patterns to improve code quality and maintainability.
- Adopting a test-driven development approach with 95% code coverage.
- Tracked project progress using Git and JIRA, and managed the continuous deployment process using a CI/CD pipeline.

TriviaTitans | *AWS Lambda, AWS Cognito, DynamoDB, AWS Lex, ReactJS, Node.js* | ⌗   *May 2023 - Aug 2023*
- Developed a serverless multi-cloud online trivia game, showcasing real-time competition and progress tracking.
- Architected a microservices-based solution utilizing both AWS & GCP, demonstrating versatility in cloud platforms.
- Utilized DynamoDB for persistent storage of user and team data, ensuring data integrity and fast retrieval.
- Managed backend operations through a combination of Google Cloud Functions and AWS Lambda functions.

PodcastTranscription | *ReactJS, Node.js, AWS Lambda, AWS EC2, Transcribe, CloudFormation* | ⌗   *Sept 2023 - Dec 2023*
- Developed an innovative app for seamless podcast transcription, enhancing accessibility and content discovery.
- Automated AWS CloudFormation deployment, cutting resource provisioning time by 20% for faster, more efficient system performance.
- Deployed the frontend on AWS EC2 and managed backend processes through serverless AWS Lambda functions.
- Focused on high transcription accuracy, rapid processing speed, scalability, user-friendly interface, and cost efficiency.

PROFESSIONAL EXPERIENCE

Software Developer | *TechNet Consultancy*   *June 2022 - May 2023*
- Contributed to the development of enterprise-level applications utilizing Java-J2EE and the Spring framework, showcasing strong technical and collaborative skills.
- Designed and implemented RESTful APIs using Spring Boot, enhancing the interaction between data services and client applications, crucial for cloud-based platforms.
- Employed Agile software development methodologies across all phases of the SDLC to improve product quality and accelerate delivery, ensuring alignment with industry best practices.
- Boosted understanding and application of cloud technologies, including Docker and Terraform, by 40%, facilitating scalable and secure cloud-based solutions.

Web Developer | *Institute of Plasma Research*   *Dec 2021 - May 2022*
- Design and implement seamless API integrations with backend services, enhancing functionality and data flow in full-stack web applications for optimal performance.
- Implemented centralized application state management using Redux, achieving a 35% improvement in data synchronization efficiency and application state handling.
- Proactively optimized code architectures, slashing load times and boosting service reliability, crucial for stellar cloud solution performance.
- Elevate web app performance by 70% through strategic use of caching, code splitting, and async programming, markedly improving user experience across all web platforms.

EDUCATION

Dalhousie University, Halifax, NS   *Jan 2023 – Present*
Master of Applied Computer Science   CGPA: 3.8/4.3

Dharmsinh Desai University, Nadiad, Gujarat   *Jul 2018 – May 2022*
Bachelor of Technology in Computer Engineering   CPI: 8.1/10.0