Gurkawalbir Singh

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EDUCATION

THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY   Patiala, Punjab
Bachelor of Technology, 9.32 CGPA   (2019-2023)
- Computer Science Engineering: COPC

SUMMARY

Hands-on Software Engineer with a strong focus on scalability and agile project management. Proficient in React.js, JavaScript, CSS, and HTML, with extensive experience in developing multi-stack, microservices-based web applications. Skilled in architecting data-intensive applications, AWS, and building high-performance web services. Adept at TDD, RESTful APIs, and enterprise architecture.

PROFESSIONAL EXPERIENCE

CELIGO INDIA LIMITED   Hyderabad, India
Software Engineer-2   (Jan 2023 - Dec-2023)
- Architected and deployed a dynamic dashboard using React.js, serving 10,000 monthly active users, to enable real-time monitoring of import, export, and lookup flows in the production environment.
- Optimized workflow efficiency and decision-making processes, resulting in a 15% increase in overall productivity.
- Migrated the entire system to AWS, ensuring scalability and reliability. Deployed and maintained Linux VMs on private cloud infrastructure, managing critical components such as a Redis/Sentinel cluster.
- Enhanced the testing framework by upgrading Jest to the latest version and migrating the CI/CD pipeline from Travis CI to GitHub Actions. Implemented an automated testing setup that ensured higher testing reliability and software integrity by rerunning failed test cases until successful.
- Improved testing efficiency and reduced time-to-resolution by 27% through optimized processes, contributing to a quality-focused development culture.

ZS ASSOCIATES   Gurugram, India
Data Analytics Associate   (Mar 2024 - Present)
- Advanced Quantitative and Qualitative Analysis Project: Spearheaded a high-impact project utilizing advanced quantitative and qualitative analysis, deploying regression models to derive actionable business insights. Strategically advised clients on data-driven decisions, significantly enhancing operational efficiencies.
- Carried out SharePoint administration and reporting, including programmatic extraction of data. Drove operational improvements resulting in a $2 million profit enhancement.
- Leveraged Amazon S3 for efficient data storage solutions, optimizing various AWS services to bolster platform capabilities. Designed and implemented robust data pipelines and storage solutions using AWS technologies, ensuring high availability, scalability, and reliability of the platform.
- Achieved seamless data management and enhanced platform performance, contributing to the platform's high operational reliability.

SKILLSET

- **Programming Languages:** Python, Java8, C++, JavaScript, TypeScript, Golang
- **Web Development:** React.js, Next.js, Redux, Vite, Node.js, HTML5, CSS3, Material UI, Bootstrap, jQuery, Responsive Web Design, Restful APIs, JWT
- **Backend and Frameworks:** SpringBoot, Hibernate, Express.js, Java Collection Framework
- **Cloud and DevOps:** AWS, GCP, Azure, Kubernetes, Docker, CI/CD Pipelines, Jenkins, GitHub Actions
- **Data and Big Data Technologies:** SQL, MongoDB, Kafka, Redis, Apache Spark, Hive, Hadoop, Airflow
- **Testing and Quality Assurance:** Test-Driven Development (TDD), Jest, Webpack, Travis CI, GitHub Actions
- **Agile Methodologies and Tools:** Agile (SCRUM), JIRA, Confluence, SDLC

PROJECTS

- MyuSyncUp (Full Stack) - Link : Streamlined project management dashboard with Firebase for real-time data sync, Redux for state control, React for dynamic interfaces, and styling. Facilitates secure login, project addition, and task assignment.
- Gericht Restaurant (UI/UX) - Link : Transforming a Figma design into a fully functioning website, using masterful CSS skills, and creating modern and responsive ReactJS websites. Developed features mirroring the functionality of a modern web platform, demonstrating skills in React.js, CSS, and Rapid API and SpringBoot. This project highlights my ability to replicate complex interfaces and implement solutions.
- EXERCISE TRACKER (Web App) : Modern Fitness Exercises App using different APIs, ReactJS and Material UI with the functionality to choose exercise categories and specific muscle groups