Shivam Kansagara

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SKILLSET

- Programming Languages   C, C++, Java, JavaScript, TypeScript, SQL, NoSQL.
- Frameworks and Technologies   Node.js, Spring Boot, Terraform, Dynamodb, PostgreSQL.
- Developer Tools   AWS (Amazon Web Services), Grafana, Git.
- DevOps   Jenkins, Kubernetes, Docker, CI/CD Pipelines.

EDUCATION

- **Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)** *B.Tech - Information and Communications Technology* **CPI: 7.87**   Gandhinagar, India   *Nov 2020 - June 2024*
  Courses: *Operating Systems, Data Structures and Algorithms, Computer network, Database management system.*

- **Krishna International School**   Rajkot, India
  Class 12th - **CBSE** *Percentage:* **92.80%**   *March 2019 - March 2020*

EXPERIENCE

- **Software Engineer - Quicko**   In-office
  Ahmedabad, India   *July 2024 - Present*
  - Designed and Developed **REST APIs**, utilizing CloudFront for **caching and load balancing**, resulting in a **20%** increase in request handling efficiency and managing up to **35k** API calls per hour.
  - Engineered and Deployed APIs for large payloads (**2GB to 35GB**) processing using **AWS Step Functions, Batch, SQS, Docker, lambda, Spring boot, Java and S3**. Improving data processing time by **30%**.
  - Revamped API charge processing to handle **10M+** calls per month via **Parallel** and **Decoupled processing**, reducing delays and accelerating reporting. This enhancement significantly reduced processing delays by **40%**.
  - Built logging and exception framework in **Node.js** using Winston, with custom transport, causal chaining, and error deduplication, boosting observability and **cutting CloudWatch costs**, now adopted by **multiple teams**.
  - Leveraged **Terraform** to automate provisioning of AWS services, Including **API Gateway, S3, Lambda, Step Functions, SQS, Cloudfront, IAM**, etc. Eliminating manual errors and boosting deployment efficiency.

- **Software Engineer Intern - Quicko**   In-office
  Ahmedabad, India   *Jan 2024 - June 2024*
  - Enhanced data processing for large payloads (**10 MB to 500 MB**) by developing an XLSX-based reporting system, improving UI/UX with **cell-level highlights and comments** for streamlined data analysis.
  - Upgraded XLSX to JSON API and vice versa by increasing the **payload limit** from 6 MB to 1 GB by transitioning to an **Asynchronous Architecture**, enabling efficient handling of high-volume data conversions.
  - Built a **Java Spring Boot** REST API on AWS Lambda to fetch data from Strapi CMS and perform tax calculations, using Jakarta servlet for efficient, serverless execution.

PROJECTS

- Attendance Management System [GitHub](#)
  - Co-led a four-person team to develop an attendance management system using the MERN stack, enhancing user experience through intuitive interfaces and optimizing data management for 3 distinct user roles.
  - Spearheaded front-end development in React.js, designing three distinct interfaces for students, professors, and administrators, resulting in a increase in user engagement.
  - Architected and Implemented the MongoDB database, improving data retrieval and ensuring efficient handling of complex attendance records.

- Undergraduate Research Internship [GitHub](#)
  - Implemented a web scraping solution using the MERN stack to extract data from top e-commerce sites, leading to a **75%** reduction in manual data collection time.
  - Optimized data retrieval processes and scraping algorithms, cutting response times from 15 seconds to 3 seconds, and improving system efficiency by **50%**.

ACHIEVEMENTS

- Consistently tackled complex algorithmic challenges by solving **850+** LeetCode problems, Score of **1000+** on GFG.
- Achieved a **98.95** percentile in JEE Mains, ranking in the top **1%** out of 1.2 million candidates.
- Ranked **14th** in the Intra-College Programming Contest (IPC) at DA-IICT.