Ratana Jangir

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Seeking full-time opportunities in Software Engineer & Cloud infrastructure

Experience

BlackRock, *Software Engineer* | Gurugram, India   *June 2022 - Present*

- Developed backend microservices and REST APIs application using Node.js with the **NestJS** and **Express** framework with authentication and authorization middleware using Keycloak for **OAuth 2.0**, ensuring secure communication between the frontend and backend. Utilized **PostgreSQL** for data storage and periodically fetched data from distributed systems such as **Airflow**, **DataHub**, **PagerDuty**, and **Snowflake**. Integrated with our custom internal Web UI to streamline monitoring, analysis, issue resolution, and **metrics** collection for Aladdin clients.
- Configured **Istio ingress**, **Gateway** and **HTTPRoute** for traffic management, security, and observability in microservice architectures deployed on Kubernetes, and set up DNS for application UI.
- Constructed Python code to automate data sync process on **S3** and **Azure Blob Storage**, enabling seamless data integration into Airflow and DataHub for ETL/ELT pipeline across multiple aladdin portfolio client. Achieved significant time savings and streamlined data management
- Developed and implemented a **Go-based CLI** project that optimized Docker image creation for Java, Go, Python, JavaScript, and Node.js artifacts. This resulted in a 40% reduction in Docker image creation time. Additionally, integrated **cloud-native buildpacks** for automatic source code detection and image building, enabling the creation of multiple source code images from a single build.
- Automated infrastructure provisioning for **cloud-based** applications across providers such as Azure, PagerDuty, HashiCorp Vault, and Snowflake using **Terraform**. This automation led to an 80% reduction in infrastructure management times and significantly improved system reliability.
- Managed **multi-tenant** applications on **Azure Cloud**, utilizing Azure Active Directory for secure and efficient identity management.
- Set up a comprehensive **CI/CD process** on GitLab and Azure DevOps for the entire source code to image workflow, including source code analysis, **test coverage**, package security scanning, executable building, image creation, **vulnerability scanning**, Helm chart writing, and deployment on **Kubernetes**
- Provided mentorship to a junior team member and effectively managed **on-call** responsibilities to promptly resolve production incidents, bugs, and deployment issues. Ensuring minimal downtime and targeting SLA level of 99.9999% availability

10x Learning (ansrcoach), *Full Stack Developer, INTERN* | Remote   *May 2021 - July 2021*

- Worked on designing a website for 10x learning. Learned database, SQL queries, JavaScript, CSS, HTML, NodeJs, and React. Collaborated with 10x learning teams for designing classes, coding courses, and course fees components.

Education

BTech, *Indian Institute of Technology Guwahati* | Assam, India   *July 2018 - May 2022*

Skills

Problem Solving	Solved more than 500 DSA questions on various platforms, Data Structure and Algorithm
Programming	C/C++, Python, Golang, NodeJs, NestJs, Git, Scripting (Bash), LaTeX, HTML, Vim, Object Oriented Programming
Software	Keycloak, SQL, NoSQL, Postgresql, Snowflake, Nats, Kafka, Ingress, ServiceNow, Linux, Terraform, Kubernetes, Docker, Helm, CI/CD, Azure DevOps

Projects

SORTING VISUALIZER APP   *May 2021 - June 2021*
Personal Project

- Created a React-based web app to visualize the working of 4 different sorting algorithms: Merge Sort, Quick Sort, Heap Sort and Bubble Sort with animations

Web Tracker (Chrome Extension)   *February 2021 - April 2021*
Personal Project

- Designed a **Chrome Extension** that actively monitors and records user-visited domains, providing insights into online behavior. Implemented using vanilla JavaScript and **Chrome APIs**, the extension obtained a 25% increase in user productivity and reduced time spent on non-essential websites

Achievements

2017	**Scholarships**, Inspire Scholarship from central Govt	Gargi Award from Rajasthan Govt	*Rajasthan*
2023	**Code Events:**, Participated in the Hackathon hosted by BlackRock	Participated in the CTF(Capture the Flag) for Cybersecurity learning	E-Voting using Azure Blockchain	*BlackRock*