

CHIRANJIVEE THAKUR

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PROFESSIONAL EXPERIENCE

Software Development Engineer II, Amazon Web Services

Apr. 2021 – Nov. 2024

- Led the migration of our metadata service from JDK 8 to JDK 17, reducing garbage collection time by **75%** and frequency by **66%**.
- Reduced fleet size by **60%** by rearchitecting capacity with next-gen, high-capacity hosts, cutting infrastructure costs by **40%**.
- Expanded AWS Simple Notification Service (SNS) to **10+ new AWS regions**, automating the provisioning of **S3, SQS, EC2, CloudWatch Dashboards, AWS Lambda, and DynamoDB** to streamline deployments.
- Migrated traffic from hardware load balancers to EC2-based software load balancers, saving **millions** in operational costs.
- Reduced AWS SNS regional launch time from **6 months to <2 weeks** by developing standardized **SOPs and automation**.

Senior Member of Technical Staff, Salesforce

Jul. 2019 – Mar. 2021

- Built a **highly available Java-based secrets scanning service** for source code repositories with daily and on-demand scans, leveraging **Kafka** for pub-sub messaging and storing results in **S3**.
- Deployed and managed **Linux-based Docker containers** on **AWS EKS** with **Kubernetes**, using **Helm** for cluster management and **Terraform** for automated infrastructure provisioning.
- Developed **Spinnaker pipelines** for continuous deployments within an **AWS VPC** environment, ensuring seamless application rollouts.
- Implemented **Hibernate** as the ORM layer with **MySQL** for service metadata storage, optimizing data-plane performance with **multithreading** to process Kafka queue requests efficiently.
- Contributed to a **Go-based container scanning service**, enhancing security tooling and extending cross-team collaboration.

Software Development Engineer, Kony

Aug. 2016 – Jun. 2019

- Developed a **Java and Spring-based service** that leveraged Jenkins for continuous integration of cross-platform mobile apps on the cloud.
- Automated patching of immutable configurations between app versions, reducing development time by **40%**, using **Test-Driven Development (TDD)**.
- Built an **app state validation tool** in Java, exposing it via web services using Spring, while applying **OOP, SOLID principles, and design patterns** for maintainability.
- Created internal **CLI tools in Python**, improving developer efficiency and automation.
- Implemented **client-facing UI** using **HTML, CSS, JavaScript, and React**, enhancing the user experience for front-end services.

SKILLS

AWS	SNS, SQS, S3, EC2, EKS, Lambda, Cloudwatch
DevOps	Docker, Kubernetes, Spinnaker, Helm, Jenkins, Terraform
Frameworks	Spring Boot, Hibernate, MySQL, DynamoDB, Kafka
Languages	Java, C++, JavaScript, Python, Go, Scala
Theory	Object Oriented Programming, Multithreading, Design Patterns, Linux

EDUCATION

Maharishi Markandeshwar University, Ambala, India

Aug. 2013 – May 2017

Bachelor of Technology in Computer Science Engineering