

Chintan Raiyani

Senior Software Engineer

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SUMMARY

- 5+ years of experience in,
 - System design and low level design, large scaled distributed project development from scratch (includes architecture, design patterns, multithreading, reliability and scaling).
 - Enhancement, modification and debugging within the large software system scope.
 - Experience leveraging object-oriented design practices with good understanding of REST API
- Knowledge of containerized, distributed, scalable applications and performance improvement.
- Passionate about practices like agile, CICD, test-driven development, observability and reliability

RESPONSIBILITY

- **Engineering:** Design, development, modification, debugging and maintenance according to functional, nonfunctional and technical design specifications.
- **Technical Ownership:** Provides technical support during solution design for new requirements. Performs peer code inspection and reviews developed solutions.
- **Innovation and Continuous Improvement:** Actively searches for innovation, continuous improvement and efficiency in all assigned tasks.
- **Quality and SLAs:** Ensures assigned tasks are completed on time and delivery timelines are met per the quality targets of the organization.

WORK EXPERIENCE

SAP Labs India – Senior Software Engineer

July 2017 - present

- **ML Admin Util:** Designed & developed robust & resilience, rest and gRPC spring boot microservices & reusable microfrontend to manage multi-tenant & scenario based admin utility for ml which runs on AWS Kubernetes multi-region clusters with minimal resources with monitoring.
Technologies: Java, Springboot, Rest, gRPC, Maven, MongoDB, Docker, Kubernetes, jib, JPA, AWS, ELK, Elasticsearch, Kibana, Prometheus, Graphana, Python, Angular
- **Onboard Util:** Designed & developed robust & resilience tenant onboard flow to automate tenant registration, certificate exchange and ml admin initialization for the new customer using spring batch.
Technologies: Java, Springboot, Springbatch, Rest, gRPC, Maven, Docker, jib, JPA
- **Inference services:** Designed & developed multiple robust & resilience, rest and gRPC spring boot microservices and jobs to support ml inference for the existing scenarios of the tenant.
Technologies: Java, Springboot, Rest, gRPC, Maven, MongoDB, Docker, Kubernetes, jib, JPA, AWS, ELK, Prometheus, Graphana, Python
- **Feedback pipeline:** Developed the event based inference feedback pipeline using spring boot and Kafka to support integration for other internal microservices
Technologies: Java, Springboot, Kafka, Rest, gRPC, Maven, MongoDB, Docker, Kubernetes, AWS
- **CX Service & Utilities:** Designed & implemented business entities and web services(OData), integration flow to legacy systems and ML services, flexible UI for the master-data entities
Technologies: Java, J2EE, SOAP, REST, Springboot, Maven, MongoDB, Docker, Angular, Olingo
- Responsible for DevOps, ML Pipeline, data plane microservice. Modernized existing system, redesigned the modularized components, for easy unit testing. Prototyped a solution for data migration.

- Parallelization of computation intensive scientific code using multiprocessing. We used CUDA platform and speed up the code execution by 70%.

Technologies: C/C++, CUDA, FORTRAN, MATLAB

EDUCATION

2015 - 2017 M.Tech(CS) at **NIT Rourkela, Orissa**

2010 - 2014 B.Tech(CS) at **Nirma University, Ahmedabad**

SKILLS

Programming Java(J2EE, Springboot, hibernate, JPA),Python (OpenCV, Pandas, NumPy, ML), HTML/CSS, JavaScript, SQL, MongoDB, Elasticsearch
Miscellaneous Maven, Gradle, Linux, Shell, Kafka, Docker, Kubernetes, AWS(ECS,EC2,S3,RDS), Git
Soft Skills Leadership, Time Management, Teamwork, Problem-solving, Documentation
Languages English, Hindi, Gujarati

OTHER PROJECTS

OMR Checker

letssolve.together.in

- It's an open-source android app to scan OMR Sheets using image processing. It's **only opensource app for OMR scanner on Play Store**.

Downloads: 4k+, Technologies: Java, Android, OpenCV, Gradle

Distributed Cluster for SAAS Product

veagletech.com

- It's a robust, fault-tolerant, distributed cluster to support distributed SAAS products that can adapt & scale new microservice with less effort for a small US start-up. Also created a microservice chassis.

Technologies: Java, Springboot, Docker, Rest, gRPC, Maven, Spring cloud(Eureka, Gateway, LoadBalancer), MongoDB, AWS(EC2, ECS, S3, RDS)

AI-based Cloudlet Allocation

[M.Tech Thesis, NIT Rourkela](#)

- Developed a CloudSim extension to optimize resource allocation in the cloud and distributed system using heuristic-based AI techniques(A*, Gravitational, Genetic, Ant colony). inspired by the nature of code book by Daniel Shiffman.

Technologies: C/C++, Python, JAVA, AI, Cloud Virtualization, CloudSim

CERTIFICATION & COURSES

Jul 2022	Build and Deploy Containerized Apps with GitHub Actions	(Linkedin Learning)
Jul 2022	Getting Started with ECS	(Linkedin Learning)
Nov 2020	Kubernetes for Java Developers	(Linkedin Learning)
July 2019	Introduction to TensorFlow in Python	(DataCamp)
July 2019	Preprocessing for Machine Learning in Python	(DataCamp)
Dec 2016	Recommender System Workshop	(GIAN, NIT Rourkela)

KEY ACHIEVEMENTS

- Received SAP Labs High Impact Award(Germany: Extraordinary Contribution Award), 2021-22
- Delivered a lecture in TEQIP-III workshop at NIT Meghalaya,2020 on Hands on for AI & ML
- Organized RSW 2017 to encourage the researcher to promote their research at NIT Rourkela