

RABIN PANTHA

Senior Software Engineer | Gen AI Developer | Full Stack Developer (Backend Heavy)

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PROFESSIONAL SUMMARY

Senior Software Engineer with **9+ years of experience** designing, developing, and scaling **cloud-native, high-performance, and secure enterprise systems**. Expertise in **Java, Python, and microservices architecture**, with hands-on experience in **cloud platforms (AWS, Azure), CI/CD pipelines, container orchestration (Kubernetes, Docker), and event-driven systems**. Proven track record of reducing infrastructure costs, improving system resilience, and delivering **AI-driven solutions** that boost user engagement and revenue. Skilled in **Agile leadership, technical mentorship, and cross-functional collaboration** to deliver business-aligned software solutions.

KEY SKILLS

Languages: Java (8–21), Python | JavaScript | TypeScript | SQL

Frameworks: Spring (REST, Boot, Batch, Security), Micronaut, Hibernate, Mockito, Angular, Django, FastAPI

Cloud Computing: AWS (Lambda, Step Functions, S3, SQS, EKS, CloudFront, DynamoDB, Step Function)

Messaging & Obs: Kafka, Datadog, New Relic, Elasticsearch/Kibana, PagerDuty

Databases: MySQL, MS SQL, SQLite, PostgreSQL, Oracle, MongoDB, Cassandra, Cosmos, DynamoDB

Testing: JUnit, Jmeter, Mockito, SonarQube, Clover, JProfiler, VisualVM, Integration Testing, Performance Profiling

Architecture & Design: Microservices, Event-Driven Architecture, Serverless, RESTful APIs, SOA, Secure API Integration

DevOps & CI/CD: Docker, Kubernetes, Terraform, Jenkins, GitLab CI/CD, Spinnaker, Bamboo

PROFESSIONAL EXPERIENCE

Sinclair Digital — Senior Software Development Engineer (Remote) · Mar 2022–Present

Digital media technology arm of Sinclair Broadcast Group, powers digital delivery for 200+ news, entertainment, and regional sports stations serving 250M+ monthly users with real-time syndication and cross-platform engagement.

- **Designed and implemented** serverless Story to Speech feature using Amazon Polly, SQS, Lambda, Kafka, and Redis as a distributed cache and **achieved 18% user adoption**.
- **Reduced infrastructure costs by 10%** by eliminating 600GB of unused assets, cutting read-only instances by 50%, and enforcing S3 lifecycle tiering to Glacier, lowering image storage costs by **42% in 6 months**.
- **Achieved 99.999% service availability** for 250M MAU by containerizing services on AWS EKS, implementing health checks, adding alerts and slack notifications and optimizing autoscaling.
- **Accelerated content delivery by 35%** and reduced publish errors by 40% by introducing event-driven architecture with Kafka + AWS Lambda and optimizing global caching with CloudFront CDN.
- **Increased organic traffic by 12%** implementing AI-driven SEO and SEO optimized title and also increased ad revenue by leveraging IAB Tags and ensuring relevant ads are displayed to the audiences.
- **Enhanced scalability and user experience** by optimizing backend workloads, caching content closer to users, and streamlining media storage TCO.
- **Led and mentored junior engineers**, defined effective QA test strategies, and ensured delivery quality across the software development lifecycle.

Technologies: AWS (EC2, S3, CloudFront, Lambda, CloudSearch, CloudFormation, Lambda), Java 21, Spring, Hibernate, Python, Kafka, Elasticsearch, Kubernetes, Docker, Terraform, NewRelic, CDN, REST, OpenAI models, Amazon Polly

USAA — Sr. Software Engineer (Remote, San Antonio, TX) · Oct 2021–Mar 2022

- **Developed a serverless debit card lifecycle workflow** using AWS Step Functions and Lambda, automating activation, PIN reset, and replacement with secure, event-driven execution and robust error handling.
- **Optimized data integration and processing pipelines** by leading ETL workflows with IBM Datastage, improving efficiency and overall system functionality.
- **Enhanced observability and reliability** by implementing monitoring and alerting solutions with Datadog and Elasticsearch, enabling proactive issue detection and faster troubleshooting.
- **Ensured high-quality software delivery** through comprehensive code reviews, system design assessments, and cross-team collaboration within Agile environments.

Technologies: *Java, Spring, Kafka, ReadyAPI, REST, Kubernetes, GitLab, React, Jira, Datadog, Elasticsearch, Kibana, Splunk, IBM Datastage, DB2, Oracle, MongoDB, Putty, Docker, Lambda, Step Function*

Walgreens (WBA Project) — Senior Software Engineer | Team Lead · Jun 2017–Oct 2021

- **Led and mentored a 6-member development team**, defining technical strategies, fostering onshore–offshore collaboration, and aligning engineering execution with business goals.
- **Modernized a 25-year-old monolithic system** into a fault-tolerant, event-driven microservices architecture using Kafka and Cassandra, greatly improving scalability and resilience.
- **Enhanced application performance** by building a reactive, non-blocking Spring WebFlux service and replacing Ehcache with Redis, reducing DB load by 25% and improving response times by 15%.
- **Championed engineering excellence** through code reviews, architecture assessments, and technology adoption, ensuring continuous improvement and high-quality software delivery.

Technologies: *Java, Spring, Hibernate, Reactive Programming, Maven, Angular, React.js, Cassandra, Cosmos, SQL, Redis, Azure, Kubernetes, Docker, Spinnaker, Bamboo, Jenkins, Service Bus, Kibana, Sonar, Ingress, Kafka*

Ishani Tech Pvt. Ltd (Federal Projects — Nepal) — Software Engineer · January 2015 – July 2016

- **Designed, developed, and secured RESTful APIs**, enabling seamless integration with frontend applications and external systems while supporting both web and Android platforms.
- **Implemented Test-Driven Development (TDD)** to enhance code quality, reduce defects, and ensure maintainable, high-performing services.
- **Managed CI/CD pipelines with Docker, GitLab, and Kubernetes**, streamlining deployments and ensuring reliable delivery across staging and production environments.
- **Collaborated with product managers and UX teams** to define, build, and deliver user-centric features that improved application usability and business impact.

Technologies: *Java, Spring, Spring Security, SQL, PostgreSQL, RESTful APIs, JBOSS FUSE, Docker, GitLab, Kubernetes, Unit testing, TDD, Google Maps API integration, Apigee, PostgreSQL, LDAP for secure API sharing*

EDUCATION

M.S. Computer Science — Maharishi University of Management, Fairfield, IA, 2017

B.E. Information & Technology — Cosmos College of Management & Technology, Kathmandu, Nepal, 2014

AWARDS & HONORS

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| • Above the Line Excellence Award (Sinclair, 2023) | • Best Team Player (Walgreens/GlobalLogic, 2018) |
| • Graduate Teaching Assistant (MUM, 2016) | • Employee of the Month (Ishani, Jun 2015 & Mar 2016) |