

HARSHIT GINDRA

Software Engineer | Distributed Systems | Generative AI | Cloud Infrastructure

harshitgindra@gmail.com | linkedin.com/in/harshitgindra | harshitgindra.github.io | Bellevue, WA

PROFESSIONAL SUMMARY

Software Engineer with over a decade of experience in system design, building highly available and scalable distributed systems across cloud, web, mobile, and desktop platforms. Currently serving as tech lead on cloud capacity orchestration managing 30K+ instances across 28 AWS regions. Proven track record in generative AI platforms, building LLM workflow tooling serving 5K+ customers with 30K daily executions. Security champion, technical leader, mentor to 12+ engineers, interviewer with 50+ interviews conducted, and driver of day-zero enablement for major product launches.

WORK EXPERIENCE

Tech Lead / Software Engineer | Bedrock Capacity Management

Amazon Web Services (AWS) | August 2025 – Present | Bellevue, WA

- Built operational tooling suite in Bash and Rust for batch capacity operations, reducing execution time from **40 minutes to 5 minutes (87% reduction)** in manual toil
- Tech lead for a team of **4 engineers** on distributed systems for cloud capacity orchestration, managing **30K+ instances** across **28 regions** globally
- Automated observability, alarm triage, and operational runbooks using CloudWatch, reducing mean time to resolution from **3 hours to 1.5 hours (50% improvement)**
- Shipped high-availability workflow engines handling capacity ingestion, rebalancing, and release lifecycle end-to-end
- Fixed critical race conditions and lock-contention bugs in concurrent distributed workflows, improving system reliability
- Led multi-region capacity reservation operations including batch transfers, splits, and cancellations at scale
- Drove infrastructure-as-code (CDK/TypeScript) for capacity management services with full CI/CD pipelines

Software Engineer | Amazon Bedrock

Amazon Web Services (AWS) | December 2023 – July 2025 | Bellevue, WA

- Built from 0 to GA the front-end interface for Amazon Bedrock Flows (LLM orchestration platform) using React Flow, enabling **5K+ customers** to visually build and orchestrate complex generative AI workflows without writing code, growing at **15% MoM**
- Engineered APIs supporting **30K+ daily workflow executions**, facilitating seamless integration between foundation models, RAG pipelines, prompt management, knowledge bases, agents, and AWS services via RESTful APIs
- Led integration and testing of new models, profiles, and routers within a **15-engineer team**, ensuring day-zero support for product launches
- Shipped asynchronous execution capabilities for Bedrock Flows, enabling long-duration AI workflow execution
- Architected traversal algorithms supporting parallel execution paths including for-loops and do-while constructs
- Served as security guardian, conducting comprehensive design reviews to identify vulnerabilities and enhance product security posture

Software Engineer | Amazon WorkDocs

Amazon Web Services (AWS) | March 2021 – December 2023 | Seattle, WA

- Owned cross-platform applications across **5 platforms** (macOS, Windows, Linux, iOS, Android) serving **200K+ users**
- Spearheaded development of WorkDocs Drive for Apple Silicon Macs, improving file sync performance and throughput from 1 file/min to **16 files/min (16x performance gain)**
- Architected automated phased rollout system for desktop applications, averting **2+ major deployment incidents** and accelerating release cadence
- Led architecture and implementation of AWS-compliant telemetry service, enabling identification and resolution of critical bugs across all client platforms
- Launched browser-based bulk download feature for WorkDocs web interface, improving user experience without increasing operational costs

Technical Lead Developer

LSC Communications | July 2018 – March 2021 | Chicago, IL

- Architected SOA-based platform for Logistics Business Group, enabling Freight Optimization, Order Management, and end-to-end shipment tracking
- Mentored a team of **12 engineers** (4 onshore + 8 offshore) on SOLID principles and Test-Driven Development, raising code quality standards
- Delivered event-driven systems using SignalR, MQTT, and RabbitMQ for real-time asynchronous communication across services
- Leveraged Azure microservices to architect scalable, resilient distributed systems

.NET Developer

RR Donnelley | June 2015 – June 2018 | Chicago, IL

- Built production applications across .NET stack including ASP.NET MVC, Web API, .NET Core, and Azure Cloud Services
- Implemented design patterns (Repository, Command, State, Factory) and engaged directly with stakeholders to translate requirements into technical solutions

TECHNICAL SKILLS

Cloud & AI: AWS (Bedrock, CDK, Lambda, EKS, EC2, S3, SQS/SNS, Step Functions, CloudWatch), Azure, LLMs, RAG, Generative AI

Infrastructure: Docker, Kubernetes, CI/CD, CDK/TypeScript, Terraform, Infrastructure-as-Code, Observability, High Availability

Languages: C#, Java, JavaScript, TypeScript, Rust, Python, SQL, Bash

Frameworks: .NET Core, React, Angular, Blazor, Node.js, ASP.NET MVC

Messaging & Systems: SignalR, MQTT, RabbitMQ, Distributed Systems, Microservices, Event-driven architecture

Databases: SQL Server, PostgreSQL, DynamoDB, SQLite

Leadership: System Design, Technical Leadership, Mentoring, Agile/Scrum, Security Reviews

EDUCATION

Master of Science, Management Information Systems

Illinois State University, Normal, IL | 2014 – 2015

Bachelor of Engineering, Electronics & Telecommunications

K. J. Somaiya Institute of Engineering, Mumbai, India | 2010 – 2013

ADDITIONAL

- Amazon Interviewer: Conducted **50+ technical interviews** for software engineering roles
- Security Guardian: Performed **30+ security design reviews** across multiple teams since joining Amazon