

TECHNICAL SKILLS

- **Backend Development & API Design:** Go, Java, Kotlin, C#, Typescript, Python, .NET, Node.js, Apache Thrift, gRPC, Lambda
- **System Architecture & Cloud Platforms:** Microservices, Event-driven systems, Kafka, Spark, Glue, AWS, Azure, OAuth 2.0
- **Database & Storage:** SQL (RDS, MySQL), NoSQL (Cassandra, DynamoDB), Redis, Amazon S3, Azure Blob Storage
- **DevOps & Observability:** Git, Azure DevOps, Grafana, ELK Stack, PowerBI, A/B Testing, CloudFormation, CloudWatch, CDK
- **Machine Learning and AI:** GenAI, MCP, LLM, Prompt Engineering, Agentic AI, RAG, NLP

KEY ACHIEVEMENTS

- **Led and Delivered TikTok Block Control Feature in a tight 2-week deadline:** Held sole ownership of a critical project in TikTok's Parental Control system, enabling parents to manage blocked users for their teens.
- **Open-Source Contribution to Publish Symbol GitHub Action:** Partnered with GitHub team to develop and launch the first public release of the action that publishes build artifacts to the Azure DevOps Package Management server (Artifacts server).
- **Recognized for Customer Obsession at Microsoft:** Led the design and development of platform-independent feedback adapter and co-developed custom visual for capturing customer feedback on a PowerBI report.
- **Spot Award for Excellent Collaborator:** Received a spot bonus for leading Disaster Recovery initiatives across TikTok's Privacy org, achieving 30% failover capacity across regions and mentoring cross-functional teams to ensure seamless execution of DR plans.

WORK EXPERIENCE

Amazon Web Services (AWS) – Clean Rooms

Software Development Engineer II

New York City, NY

June 2025 - Present

- Orchestrated and completed region expansion for AWS CleanRooms into 10 new GeoRegions, with CDK optimization and GenAI leveraged automation to speed up future region expansion effort by 80%
- Developed an Ops Tool to share Spark execution logs from Clean Rooms Compute cells to advertisement clients redacting PII

TikTok Inc. (Bytedance)

Backend Software Engineer

Bellevue, WA

August 2023 – June 2025

- Led the migration of TikTok's Age Appeal ecosystem to an asynchronous, event-driven microservice architecture leveraging Kafka, ensuring 100% data consistency and 99.99% SLA compliance for processing appeals within five days
- Reduced technical debt by modularizing the Age Appeal system using object-oriented design, cutting future development time by 50% and establishing clear audit trails for age moderation and verification attempts
- Optimized the appeal moderation process by integrating a subject consistency matching system, increasing appeal decision accuracy by 7% and substantially reducing minor leaks
- Designed the routing logic for Child Safety Violation content in appeal material to proactively detect unsafe TikTok accounts
- Directed the creation of a comprehensive Standard Operating Guide for release management, resulting in 28% reduction in rollback rates and enhanced automation coverage, improving release stability and deployment efficiency

Microsoft Corporation

Software Development Engineer II

Redmond, WA

February 2019 – July 2023

- Designed and developed v2 of the Self-Service Admin tool leveraging microservice architecture, processing more than 1000 activities per second with 99.97% success. Resolved a critical QPS bottleneck, boosting work item move capacity from 10k to 25k by batching API calls
- **API Store:** Created an Azure DevOps Release Task extension to enhance API discoverability and consistency
- **Hack for Good:** Automated manual entry of handwritten forms using OCR and NLP, saving significant time and effort

Target Corporation

Software Engineer

Bangalore, India

July 2015 - July 2017

- Developed Item Service APIs in Java with Spring Boot, leveraging Redis caching to achieve less than 5ms response times
- Built Apache Storm topology for ingesting more than 1 million items per day from Pricing System

EDUCATION

Iowa State University

Master of Science in Computer Science (Merit-based scholarship recipient)
Specialization: Machine Learning & Artificial Intelligence

August 2017 - December 2018

GPA: 3.8/4

Indian Institute of Technology (IIT) Roorkee

Bachelor of Technology in Materials Science (Merit scholarship recipient)

July 2011 – May 2015

GPA: 8.97/10