Anushka Singh

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EDUCATION

University of Washington	Seattle, WA
MS in Data Science, GPA: 3.96/4.0	*Sep 2021 – Mar 2023*
Delhi Technological University	Delhi, India
B.Tech in Information Technology, GPA: 8.75/10.0	*Aug 2015 – Jun 2019*

SKILLS

Languages: Java, C++, SQL, Python
Technologies: Kafka, AWS (S3), RESTful API, Git, Aerospike, MongoDB, MySQL, ElasticSearch
Frameworks: Spring Boot, JUnit, JBehave

WORK EXPERIENCE

Goldman Sachs — New York, NY
Associate (Software Engineer) — *Apr 2023 – Present*

- Eliminated ∼ $10M in licensing costs by designing and delivering an end-to-end order allocation merging/splitting system, safely handling 800–1,300 trades/day with zero P&L impact post-launch [details]
- Reduced data storage costs by 35% by architecting team's first AWS cloud deployment for compliance-mandated trade surveillance from 15 external platforms [details]
- Cut API response time by 60% by implementing multi-threaded request handling for high-traffic trading operations
- Enhanced observability for a Kafka-backed real-time WebSocket pipeline by instrumenting queue depth, drain rate, and end-to-end latency to detect backpressure and prevent UI state drift during burst traffic (100+ concurrent users)
- Mentored 5 summer interns through full development lifecycle, shipping production features now used daily by trading desk

Goldman Sachs — Bengaluru, India
Analyst (Software Engineer) — *Apr 2021 – Aug 2021*

- Modularized core micro-services to library service to enable future extensibility using Java, MongoDB, and multi-module Spring Boot project
- Owned development of critical Apple Cards feature within Marcus platform, coordinating with product, design, and engineering teams from requirements through launch

Airtel Payments Bank — Gurugram, India
Software Development Engineer — *Jun 2019 – Apr 2021*

- Scaled onboarding system to ~10,000 new users/day by building microservices in Java/Spring Boot with Oracle (SQL) and Aerospike (NoSQL)
- Achieved <10ms response time at 500 TPS for customer-facing APIs with robust monitoring and alerting
- Reduced customer drop-off by building journey analytics dashboard integrating Oracle DB and ElasticSearch to identify and fix onboarding bottlenecks

INTERNSHIPS

Goldman Sachs — New York, NY
Summer Analyst (Software Engineer) — *Jun 2022 – Aug 2022*

- Migrated FIX Engine modules to Java Slang Interface (JSI), streamlining maintenance for trading flow handling $5-10B USD/day

Airtel Payments Bank — Gurugram, India
Software Development Engineer Intern — *Jun 2018 – Jul 2018*

- Built UPI payment flow UI components for Airtel Net Banking using AngularJS

HCL Technologies — Noida, India
Summer Intern — *Jun 2017 – Jul 2017*

- Developed sensor selection framework for automotive manufacturing in IoT Works Department

PUBLICATIONS

Encoding Context in Task-Oriented Dialogue Systems Using Intent, Dialogue Acts, and Slots — Mar 2020

- Published in Springer's *Innovations in Computer Science and Engineering* (peer-reviewed, 4 citations)
- Developed neural architecture for dialogue understanding using BiLSTM + CRF for dialogue act classification and attention-based slot tagging - foundational techniques now used in modern conversational AI

ADDITIONAL

CRY - Child Rights and You — Dec 2017 – Jan 2018

- Conducted sessions on menstrual health for adolescent girls to disseminate awareness and clarify misconceptions
- Liaised between donors and volunteers for two crowd-funding campaigns and helped raise more than INR 5 lakhs for the education and protection of female children