

Anushka Singh

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EDUCATION

University of Washington

MS in Data Science, GPA: 3.96/4.0

Seattle, WA

Sep 2021 – Mar 2023

Delhi Technological University (JEE: top 0.5%)

B.Tech in Information Technology, GPA: 8.75/10.0

Delhi, India

Aug 2015 – Jun 2019

SKILLS

Languages: Java, Python, SQL, C++

Technologies: Kafka, AWS, S3, IaC, RESTful API, Git, Prometheus, Grafana

Databases: MySQL, MongoDB, Elasticsearch, Aerospike

Frameworks: Spring Boot, JUnit, JBehave

WORK EXPERIENCE

Goldman Sachs

New York, NY

Associate (Software Engineer)

Apr 2023 – Present

- Eliminated millions in licensing costs by designing and delivering an end-to-end order allocation merging/splitting system with race condition handling and event serialization, safely handling thousands of trades/day with no adverse P&L impact post-launch [details]
- Architected team's first AWS cloud deployment leveraging S3 with lifecycle policies for compliance-mandated trade surveillance from 15 external platforms, reducing storage costs by 35% [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), with Kafka-based retry queues and idempotent operations for fault tolerance
- 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