

Shikhar Agnihotri

Bellevue, WA

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Senior Software Engineer with 4+ years of experience building distributed systems, full-stack products, and applied AI at Salesforce, D.E. Shaw, and Walmart. Carnegie Mellon CS graduate with a focus on high-throughput infrastructure, developer tooling, and real-world AI applications.

Education

CARNEGIE MELLON UNIVERSITY

M.S. IN INTELLIGENT INFORMATION SYSTEMS, SCHOOL OF COMPUTER SCIENCE (GPA: 3.93/4.00)

- Coursework: Cloud Computing, Distributed Systems, Deep Learning, Large Language Models, Probability & Computing.
- Graduate **Teaching Assistant**: 11-785 Intro to Deep Learning (Spring '23 & Fall '23); trained 200+ students in PyTorch.

Pittsburgh, PA

Aug 2022 - Dec 2023

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

B.E. IN COMPUTER ENGINEERING (GPA: 8.52/10.00)

Delhi, India

Aug 2016 - Aug 2020

Work Experience

SALESFORCE

Bellevue, WA

SENIOR MEMBER OF TECHNICAL STAFF

Feb 2026 - Present

- Architected high-concurrency real-time events pipeline handling **hundreds of billions of monthly events** with sub-second delivery guarantees; own reliability, observability, and on-call for the system end to end.

MEMBER OF TECHNICAL STAFF

Jan 2024 - Jan 2026

- Led end-to-end delivery of an Internal Developer Tooling Platform — embedded with users to understand debugging pain points, then built from design through production across Node.js, C#/.NET, and React; reduced a **20+ step** workflow to under 4, adopted by **95%** of customers.
- Built a high-throughput push delivery system handling enterprise-scale message delivery; processed **billions of pushes during peak traffic** with zero downtime.

THE D.E. SHAW GROUP

Hyderabad, India

MEMBER OF TECHNICAL STAFF

May 2022 - Aug 2022

- Built and maintained **Batch**, a firmwide workflow automation platform with DAG-based scheduling and fault-tolerant execution across **350K+ daily jobs**; directly reduced manual toil for quantitative researchers and engineers.
- Designed Python auto-retry framework with configurable backoff, autonomously **recovering 60%** of transient failures without human intervention. Tech: Python, Unix.

WALMART GLOBAL TECH

Bengaluru, India

SOFTWARE DEVELOPER II

Aug 2020 - Apr 2022

- Backend Engineer on QuickPick, a distributed order management system supporting **\$8B-\$10B annual revenue**; built RESTful microservices on Azure (Cosmos DB, Service Bus, Kubernetes) with CI/CD pipelines and observability.
- Led development of an NLP-based support chatbot that automated **70%** of manual support tasks. Tech: Python, Java, SQL, Azure.

Projects

INVESTINSIGHTS.AI

AI-Powered Financial Intelligence

Platform

PYTHON, MODEL CONTEXT PROTOCOL, LLMs, SQL, REACT NATIVE

May 2025 - Jun 2025

- Built end-to-end AI application from scratch; wrote custom MCP servers, designed agentic LLM workflows with tool-use orchestration, and deployed on AWS independently.
- Ingests and analyzes live financial data (SEC filings, insider trading, earnings) via programmatic web access; shipped to real users.

CELLULAR NETWORK SPEECH ENHANCEMENT

CMU Capstone

PYTORCH, PYTHON, SIGNAL PROCESSING

Dec 2023

- Achieved **state-of-the-art** results on VoIP DNS Challenge (1.92 PESQ, 0.88 STOI), surpassing industrial benchmarks. *Paper*

GOOGLE MEET CLASSIC IMPERSONATOR

Chrome Extension

TENSORFLOW LITE, JAVASCRIPT

Jul 2020

- Chrome extension that replaces live video with animated characters in Google Meet calls using client-side TensorFlow Lite.
- **220K+ installs**, 27K+ DAUs, 20M+ impressions, \$2K+ ad revenue.

Skills

Languages	Python, JavaScript/TypeScript, Java, C#, SQL	AI & ML	PyTorch, LLMs, MCP, Agentic Workflows
Infrastructure	Kubernetes, Docker, Terraform, Kafka, CI/CD, Git	Platforms	AWS, Azure, Cosmos DB, PostgreSQL, FastAPI