

Akshay Malhotra

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EDUCATION

Master of Science in Computer Science

Arizona State University

Aug. 2021 - May 2023

4.0/4.0

Bachelor of Technology in Information Technology

Indian Institute of Information Technology, Allahabad

July 2014 - June 2018

8.02/10.0

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, C#, C, C++ SQL, GraphQL

Frameworks/Libraries: Spring, Spring Boot, React, Angular, Flask, JUnit, Mockito

Database: MySQL, PostgreSQL, MS SQL Server, MongoDB (NoSQL), AWS (S3, RDS, DynamoDB)

Event Driven / Messaging Systems: Apache Kafka, RabbitMQ, Redis, AWS (SNS, SQS)

DevOps, CI/CD Tools: Docker, Kubernetes, Jenkins, Terraform, GitHub Actions, Azure Pipelines, Maven, Gradle, Git

Cloud Platforms: Amazon Web Services (AWS), Microsoft Azure

EXPERIENCE

Ernst & Young

Senior - Technology Consulting

Charlotte, North Carolina, USA

October 2023 - Present

- **Reduced processing time by 95%** for agentic workflows, improved code & infrastructure concurrency capabilities.
- Increased agentic workflow **success rate by 18%**, resolved API race conditions & streamlined blob storage usage.
- Built resiliency mechanisms for 10+ distributed microservices, enhancing reliability & **reducing outages by 22%**.
- Built a reusable utility for dynamic SSL connectivity using trust and key stores, used by **3 services on startup**.
- Developed validation & authentication interceptors following security best practices and reducing redundancy.
- Engineered Kafka partitioning logic for event-driven workflows, improving performance & reducing overhead.
- Oversaw integration of Microsoft EntraID into services, developed utility for API token generation & caching.
- Led **technical mentorship for 5+ engineers** on distributed systems architecture and drove hiring through **10+ technical interviews**.

ZS Associates Inc.

Software Engineer

Evanston, Illinois, USA

July 2023 - September 2023

- Led GraphQL integration across frontend & conducted migration POCs, **accelerating go-to-market by 2 years**.
- Responsible for a core module's readability & maintainability; reviewed contributions & refactored source code.

Software Engineer Intern

June 2022 - Aug. 2022 & Sept. 2022 - Jan. 2023

- Developed an employee management and insights portal; full-stack features include CRUD operations, import historical sales data, and on-demand sales insights generation.
- Contributed to ZAIDYN's product requirements; developed a full-stack module related to incentive workflow.

InfoEdge India Limited

Senior Software Engineer

Jan. 2018 - June 2021

Noida, India

- Optimized SaaS platform services (175rps) including APIs, ETL batch pipelines, schedulers, and Kafka consumers.
- Architected and built scalable RESTful APIs for a core microservice, **reducing response time by 3x**.
- Expedited the SDLC of several web pages resulting in **increased page views by 18% & lead generation by 15%**.
- Developed an aggregator web service that organized webpages business logic; **reduced outage time by 25%**.
- Awarded *Excellence Award* for exceptional contribution to business success.

CERTIFICATIONS

AWS Certified Developer - Associate

March 2024 - March 2027

ACADEMIC PROJECTS

Building an Elastic Application Using Cloud Computing

- Built applications that scale based on requests & CPU usage in the public (AWS) & hybrid cloud (OpenStack).

Simulation of Multimedia Storage, Retrieval, and Similarity in Databases

- Simulated database using different feature representation, indexing, & classification techniques using 4000 images.