

ASHISH KSHIRSAGAR

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SUMMARY

Systems Engineer with 5+ years at Microsoft, Amazon, and Barclays building low-latency C++ backends and high-throughput trading-adjacent services. At Microsoft, debugged C/C++ OS internals and reduced incident MTTR 30%. At Amazon Payments, scaled Java/Kafka services to 10B+ requests/year. Strong in modern C++, Linux, lock-free data structures, network programming, and ultra-low-latency systems engineering.

WORK EXPERIENCE

Microsoft Corporation

Software Engineer

July 2024 - Present

Seattle, WA

- Mitigated 15+ Windows update/recovery issues by leading incidents and WinDbg post-mortems.
- Reduced recovery-update MTTR by 30% by building a C++ CI validation pipeline in Azure DevOps.
- Cut on-call onboarding from weeks to days by standardizing runbooks and SLO playbooks into repeatable triage procedures.

Amazon Development Center India Pvt Ltd

Software Development Engineer II

October 2021 - August 2022

Bangalore, India

- Scaled payment components to 10B+ annual requests by architecting Java services (DynamoDB) and automating telemetry.
- Reduced payment-method onboarding effort from 3 months to 2 weeks by driving app-to-app redirection/fallback design and coordinating away-team changes.

Barclays Global Service Pvt Ltd

Software Developer

July 2019 - September 2021

Pune, India

- Reduced QA effort by 33% by automating CI/CD and test pipelines for Java Spring services.
- Supported 5M+ US customers by owning Java services and production operations.

INTERNSHIP EXPERIENCE

Tesla Inc

Software Engineering Intern

January 2024 - May 2024

San Francisco Bay Area, California

- Reduced quoting manual effort by 60% and increased throughput by 30% by building a containerized .NET/C# service for Megapack.

Google LLC

Software Engineering Intern

May 2023 - August 2023

Sunnyvale, California

- Improved p99 latency by 5% for a product serving 1B+ users by developing journey APIs (Java, Protobuf/gRPC) on GCP.

EDUCATION

Arizona State University, Tempe, Arizona, USA

Master of Science in Computer Science (GPA: 4.0/4.0)

August 2022 - May 2024

Pune Institute of Computer Technology, Pune, India

Bachelors of Engineering in Computer Engineering

July 2015 - May 2019

TECHNICAL SKILLS

Programming Languages C++, Java, C#, Python, Scala, JavaScript

Frameworks & Libraries Java (Microservices, Spring), .NET

Datastores DynamoDB, PostgreSQL, MongoDB, MySQL

Tools & Platforms WinDbg (post-mortem debugging), Git, Azure DevOps, Azure, Docker, Kubernetes, Kafka, gRPC, GCP

PROJECTS

High-Throughput Graph Processing Pipeline

- Improved graph-processing throughput by 50% by designing a real-time pipeline (C++, Docker, Kafka, Neo4j).

klarEDA

- Automated common EDA steps by building an open-source Python library with one-call preprocessing and visualization.

CO-CURRICULAR ACTIVITIES

Open Source Mentorship

- Mentored OSS contributors (OpenSSF @ GHC'23; CERN-HSF GSoC'21) on scalable ML tooling.