

Hrishank Chhatbar

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SUMMARY

Recent graduate (Dec 2025) with Master's degree from USC and software engineering experience at Amazon Web Services Lambda. Strong foundation in data structures, algorithms, and object-oriented programming with hands-on experience building scalable backend systems using Java and Python. Seeking entry-level software engineer positions.

TECHNICAL SKILLS

Languages: Java, Python, SQL, Bash, JavaScript

Frameworks & Tools: Spring Boot, Node.js, Flask, JUnit, Mockito, Docker, Git

Cloud & Databases: AWS (Lambda, DynamoDB, S3, EC2), MySQL, REST APIs

CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, System Design, Unit Testing, CI/CD

EXPERIENCE

Software Development Engineer (SDE) Intern

Jun 2025 – Aug 2025

Amazon Web Services (AWS) - Lambda

Seattle, WA

- Built a concurrency-based load-shedding system in Java to improve service reliability under high load by identifying and throttling resource-intensive accounts, implementing multi-threaded request handling and DynamoDB state management.
- Optimized backend service performance to achieve 35μs P99 latency by improving database query patterns and implementing efficient data structures for high-throughput request processing.
- Validated system resilience by reproducing the April 3rd YYC region outage (4X traffic spike, 20min downtime) using JUnit simulation frameworks, demonstrating the system would prevent cascading failures under 10X traffic surges.

Associate Software Development Engineer

Jan 2023 – Aug 2023

IdeaS Revenue Solutions

India

- Improved application performance by 40% through refactoring Java/Spring Boot code, optimizing algorithms and reducing time complexity in the pricing calculation engine for real-time data processing.
- Designed and implemented a Python ETL pipeline with SQL data validation to ensure data integrity across database systems, applying object-oriented design principles to create reusable components for data processing workflows.

Software Engineer Intern

Apr 2022 – Oct 2022

Volkswagen Group Technology Solutions

India

- Developed an automated document processing system using Azure AI and Python, integrating REST APIs and training machine learning models to achieve 95%+ accuracy in data extraction from multi-language documents.
- Built a full-stack authentication service using Node.js, Angular, and SQL database with role-based access control, implementing secure session management and RESTful API endpoints for 500+ enterprise users.

PROJECTS

Distributed Key-Value Store (Raft Consensus) | *Java, Docker, Multithreading*

2024

- Implemented the Raft consensus algorithm from scratch using Java and object-oriented design, building a distributed cache system that handles leader election, log replication, and state machine operations across multiple nodes with thread-safe data structures.

AI-Powered Document Q&A Service | *Python, Flask, AWS, REST API*

2023

- Built a serverless application using Flask and AWS services, implementing RESTful APIs for document processing and integrating vector search algorithms for natural language querying with automated deployment via CI/CD pipelines.

LEADERSHIP & ACHIEVEMENTS

Patent Co-Inventor: "Portable UV-C Lamp for Ultraviolet Disinfection" (South African Patent 2023/03193, 2023)

Association of Indian Students at USC: Negotiated \$15K+ in sponsorships as Director for university events

Academic Honors: Dean's List at USC (2024-25), Academic Excellence Award at MIT Pune (2023)

EDUCATION

University of Southern California (USC)

Los Angeles, CA

Master of Science in Engineering Management, Minor in Business Analytics; GPA: 3.9/4.0

Dec 2025

Relevant Coursework: Data Structures & Algorithms, Distributed Systems Cloud Computing

Maharashtra Institute of Technology (MIT Pune)

Pune, India

Bachelor of Technology in Electronics and Computer Engineering; GPA: 3.97/4.0

Aug 2023