

Hrishank Chhatbar

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PROFESSIONAL SUMMARY

Software Engineer specializing in Cloud Infrastructure and Backend Services. Direct experience at **Amazon Web Services (AWS)** architecting and delivering fault-tolerant services for the Lambda platform, cutting host timeouts by 35%. Proficient in building and deploying scalable systems using Java, Python, and Infrastructure as Code (AWS CDK, Terraform).

TECHNICAL SKILLS

- **Languages:** Java, Python, SQL, Bash.
- **Cloud & Infra:** AWS (Lambda, S3, DynamoDB, API Gateway, IAM, CloudWatch), Docker, Kubernetes (k8s)
- **Infrastructure as Code (IaC) & Automation:** AWS CDK, Terraform, Jenkins, Git
- **Frameworks & Libraries:** Spring Boot, JUnit, Mockito, LangChain

WORK EXPERIENCE

Amazon Web Services (AWS)

June 2025 – Aug 2025

Software Developer Engineer (SDE) Intern.

Seattle, WA

- Architected and delivered a precision **load-shedding mechanism** for the core AWS Lambda service to protect against capacity exhaustion, **improving platform availability** for millions of customers by throttling only surge-driving "top-mover" accounts.
- Owned the **end-to-end development** of the system's lightweight "hot path" handler, which added less than **35µs of latency** to the synchronous **invoke path** while enforcing throttling decisions.
- Validated the system's effectiveness by engineering a JUnit-driven simulation framework that replicated a **production incident**, proving the new mechanism could prevent a recurrence while having a **negligible (<0.04%) impact on CPU in the gamma test environment**.

IDeaS Revenue Solutions

Jan 2023 – Aug 2023

Associate Software Developer.

India

- Engineered and shipped core business logic components in **Java** for a dynamic pricing module, directly impacting the functionality of the primary revenue management SaaS platform.
- Developed a **Python automation** service to streamline property **data extraction**, reducing manual data **retrieval** time from hours to minutes by consuming internal **REST APIs** and interfacing with **production databases**.

Volkswagen Group Technology Solutions

Apr 2022- Oct 2022

Software Engineer Intern.

India

- Engineered and scaled an **invoice processing pipeline** by integrating **Azure Cognitive Services (OCR)**; developed custom Java components that was successfully deployed to support both Korean and Spanish-language business units, achieving over 89% data extraction accuracy.
- Built and deployed a **two-factor authentication** (2FA) service for an internal platform, enhancing system security and enabling role-based access control using a **MEAN** stack (Angular, Node.js) and MSSQL.

PROJECTS

AI-Powered Resume Optimization Service | Python, OpenAI, AWS

- Engineered a full-stack service to analyse and dynamically restructure resumes for Applicant Tracking System (ATS) compatibility, leveraging OpenAI's GPT models via the LangChain framework.
- Exposed the service via a RESTful API using AWS API Gateway and Lambda and managed the entire serverless infrastructure deployment using Terraform for automated, repeatable setup.

EDUCATION

University of Southern California (USC)

Jan 2024- Dec 2025 (Expected)

Master of Science in Engineering Management, Minor in Business Analytics

Los Angeles, CA

GPA: 3.9/4.0