

# ASTHA GUPTA

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Software Engineer with 3+ years of experience building and maintaining backend and cloud-native systems. Strong in C++, Golang, data structures, and distributed systems with hands-on AWS, Kubernetes, and Helm experience. Actively seeking SDE-2 backend roles.

## EDUCATION

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SRM Institute of Science and Technology - B. Tech. in Computer Science & Technology, 2023 - CGPA: 9.12

## EXPERIENCE

### Software Engineer at Opentext, Bengaluru

12/2024 - Present

- **Led Helm chart standardization across all products**, improving consistency and increasing overall maintainability.
- **Delivered security patch releases in production environments**, ensuring no service disruption and on time delivery.
- **Debugged and resolved high-priority customer escalations for enterprise clients**, performing root-cause analysis.
- **Owned features end-to-end**, from design and implementation to testing, deployment and production readiness.

### Associate Software Engineer at Opentext, Bengaluru

02/2023-12/2024

- Built, deployed **containerized services** using **Docker and Kubernetes**, ensuring reliable and consistent deployments.
- Supported **multi-cloud deployments** across **AWS and GCP (Anthos)**, managing environment-specific configurations.
- Owned **Helm chart development and maintenance**, enabling standardized and reusable service deployments.

### Intern at Opentext, Bengaluru

01/2023-2/2023

- Performed **manual and basic automation testing** to validate backend functionality and identify defects early.
- Built strong **product understanding** by collaborating with senior engineers and reviewing application workflows.

## SKILLS

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Languages: C++, GoLang, Docker, Kubernetes, Helm, CI/CD, AWS, REST APIs, Microservices, OOP, Error Handling, SQL (Fundamentals), Data Structures & Algorithms, HLD, Git, Jira, YAML, Shell Scripting, VS Code.

## PROJECTS

### Task Management System

- Built a **console-based task management system** using **C++, OOP and STL**, supporting complete **CRUD operations**.
- Designed a **modular, scalable class architecture** to ensure clean code structure and long-term maintainability.

### URL Shortener Service

- Implemented a **backend-style URL shortening service** with **short-code generation and redirection logic**
- Used **hash maps for efficient O(1) lookups**, focusing on performance and scalable design, simulating real-world systems.

### LRU Cache

- Implemented an **O(1) LRU Cache** using a **hash map and doubly linked list** for fast access and eviction.
- Added **cache eviction and hit/miss tracking**, improving observability of cache behavior.

## COMPETITIONS

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- **Flipkart Grid 3.0**: Participated in a hackathon focused on solving real-world problems through software solutions.
  - **JP Morgan Code for Good**: Collaborated in a hackathon to solutions addressing real-world social impact challenges.