

Education

California State University, Long Beach Master of Science in Computer Science	Expected May 2026
Visvesvaraya Technological University, India Bachelor of Engineering in Computer Science	May 2024

Experience

Software Engineering Intern — Hewlett Packard Enterprise, Bengaluru, India	2022 – 2023
<ul style="list-style-type: none">Developed and maintained backend services and RESTful APIs supporting internal enterprise applications.Implemented API endpoints for authentication, diagnostics, and data retrieval using structured request/response models.Debugged production issues and improved error handling to strengthen service stability and reliability.Integrated structured logging and basic monitoring to improve observability and speed up troubleshooting.Collaborated with senior engineers on code reviews, feature design discussions, and CI/CD deployment pipelines.Wrote unit and integration tests to ensure correctness, stability, and maintainability of backend components.Built and integrated the BUDHA Kubernetes conversational assistant to simplify access to cluster diagnostics, logs, and health status.Designed backend workflows enabling engineers to query Kubernetes resources without manual CLI interaction.	
Projects	
Construction Management System	
<i>C++, MySQL, HTML/CSS, Bootstrap</i>	
<ul style="list-style-type: none">Designed and implemented a full-stack, database-driven application to automate construction site and project management workflows.Developed a responsive frontend to manage client records, site details, schedules, and work progress.Designed relational MySQL schemas and implemented secure CRUD operations with validation.Added reporting and search features to improve project tracking and day-to-day coordination.	
Two-Way Sign Language Interpreter	
<i>Python, OpenCV, PyTorch, MediaPipe, OpenCL</i>	
<ul style="list-style-type: none">Developed a real-time sign language recognition pipeline using CNN-based deep learning models and MediaPipe feature extraction.Performed data preprocessing including normalization, denoising, resizing, and feature extraction to improve consistency.Leveraged GPU acceleration with OpenCL to support real-time camera-based interaction and smoother inference.Built a simple interface for live capture and prediction display, enabling user feedback and iterative testing.	

Technical Skills

Languages: Python, Java, C, C++, SQL

Backend/Frameworks: Flask, REST APIs

Cloud/DevOps: Docker, Kubernetes, AWS (Basics), CI/CD concepts

Databases: MySQL, SQL fundamentals (schema design, indexing basics)

Concepts: Backend development, distributed systems, algorithms & data structures

Coursework & Research

Coursework: REST APIs with Flask (Coursera), AWS Cloud Technical Essentials, Java Programming (MIT OpenCourseWare), REST APIs

Research: Leader election algorithms for crash-recovery distributed systems, focusing on stability and lightweight recovery.