

# HEMANTH KUTTUBOYINA

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## CAREER OBJECTIVE

Innovative Full-Stack Engineer hands-on experience in designing and deploying **distributed systems at scale**. Seeking an SDE-1 role to leverage expertise in **system design**, **cloud-native architectures**, and **high-performance optimization** while solving complex scalability challenges. Proven ability to lead technical implementations of systems handling **5k+ RPM** with **99.95% uptime**, combining strong fundamentals in **data structures/algorithms** with modern engineering practices.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript/TypeScript, SQL, C

**Frontend:** Next.js, React, Redux, Tailwind CSS, Webpack

**Backend:** Node.js, Express.js, **Spring Boot**, REST APIs, GraphQL

**Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, Kubernetes, Jenkins, GitHub Actions

**Databases:** MySQL, MongoDB, Redis, Cassandra, **Database Scaling Strategies**, **ACID Compliance**

**Architecture:** Microservices, Distributed Systems, Event-Driven Architecture, **System Design**

## PROJECTS

### 1. Distributed URL Shortener (150k+ users)

[\[GitHub\]](#)

- Designed **horizontally scalable** system handling **5k RPM** using consistent hashing and **load balancing with Nginx**
- Implemented **circuit breakers** for fault tolerance, achieving **99.95% uptime** through health checks
- Reduced database load by **60%** using **Redis cache layers** with write-through strategy
- Secured endpoints with **JWT refresh tokens** and **OAuth 2.0**, blocking **95%+** malicious requests

### 2. Next.js E-Commerce Aggregator

[\[GitHub\]](#)

- Built **SSR/SSG** application using Next.js 14 with **95+ Lighthouse score**, implementing **ISR** for dynamic pricing
- Created **distributed scraping system** with Puppeteer Cluster, achieving **98% success rate** via proxy rotation
- Designed **event-driven architecture** using Kafka for real-time inventory updates across **3 platforms**
- Developed **custom recommendation engine** using collaborative filtering (Python Flask microservice)

## PROFESSIONAL EXPERIENCE

**GenZ Educatewing** — Software Engineer Intern

May – July 2024

- Developed **responsive UI** with **React** and **Tailwind CSS**, improving page load speed by **15%**
- Implemented **CRUD APIs** using **Node.js** and **MongoDB**, handling **500+ daily active users**
- Conducted **code reviews** and **debugging sessions**, enhancing code quality by **20%**

## EDUCATION

**B.Tech CSE (AI/ML)**

2023–2026

Andhra Loyola Institute of Engg. & Tech

CGPA: **8.2/10**

**Diploma in ECE**

2020–2023

Bapatla Engineering College

Score: **81.4** (Top 5%)

## ACHIEVEMENTS

- AWS Certified Developer - Associate** (2024) — **Google Cloud Skills Boost** (Kubernetes Track)
- Authored "Designing Rate Limiters" blog series (**25k+ views**), featured on Hashnode Spotlight
- Ranked in top **200** in CodeChef June Long Challenge (2023) among **15k+ participants**

## LEADERSHIP

- Mentored **50+ students** in full-stack development through college coding club
- Led team winning **Smart India Hackathon 2023** (National Finalists) with AI-powered inventory system