

HEMANTH KUTTUBOYINA

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CAREER OBJECTIVE

Innovative **Full-Stack Engineer** with 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

Programming Languages: Java, JavaScript/TypeScript, Python, SQL

Frontend Technologies: React, Redux, Context API, HTML5, CSS3, Next.js

Backend Technologies: Node.js, RESTful APIs

Database Systems: MySQL, MongoDB

Additional Skills: Distributed Systems, Microservices, Load Balancing, Caching (Redis), Authentication (JWT, OAuth 2.0)

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%**

PROJECTS

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

Next.js E-Commerce Aggregator [\[GitHub\]](#)

- Built 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)

EDUCATION

B.Tech in Computer Science & Engineering (AI/ML) **2023–2026**

Andhra Loyola Institute of Engineering & Technology **CGPA: 8.2/10**

Diploma in Electronics & Communication Engineering **2020–2023**

Bapatla Engineering College **Score: 81.4% (Top 5%)**

CERTIFICATIONS & 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 & COMMUNITY INVOLVEMENT

- Mentored **50+ students** in full-stack development through college coding club
- Led team to **National Finalist** position in Smart India Hackathon 2023 with AI-powered inventory system