Noothi Akshith

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Education

Mahatma Gandhi Institute of Technology — Hyderabad, Telangana
B.Tech. in Computer Science and Engineering — Aug '22 – Present

- CGPA: 8.5/10
- Relevant Coursework: Data Structures, Algorithms, DBMS, Computer Organization, OOP
- **LeetCode:** Solved 600+ problems, Contest Rating 1563 (**Top 29% globally**).

Brilliant Grammar High School — Hyderabad, Telangana
Higher Secondary (10+2) — Jun '20 – May '22

- Percentage: 93%

Experience

Software Development Engineer Intern — Kacx Labs
June 2024 – Present

- Built a SaaS platform processing 30+ podcasts/day into TikTok/YouTube Shorts, reducing editing time by 80%, using WhisperX + Modal.
- Developed an intelligent highlight detection pipeline with Gemini API, improving clip accuracy and cutting processing time from 10 min to 4 min, in collaboration with content teams.
- Engineered GPU-accelerated rendering pipelines on Kubernetes, scaling reliably to 1000+ concurrent jobs with retry logic, coordinating closely with infra engineers to ensure fault tolerance.
- Automated CI/CD workflows with GitHub Actions and test coverage, reducing release cycles by 30% while collaborating with QA and deployment teams to improve reliability.

Projects

Remote Code Execution Engine — Source Code

- Designed a secure online judge system managing 120+ concurrent submissions with 99.8% success rate, using Node.js, Redis, PostgreSQL, and Kubernetes.
- Enforced sandboxed, non-root execution with memory and timeout limits, leveraging Kubernetes PodSecurityContext.
- Reduced result latency by 52% (2.5s → 1.2s) through WebSocket-based real-time updates.

AI-Powered Course Generator — Source Code

- Built a platform generating 100+ personalized courses/day for 500 users with coding exercises, using Node.js, BullMQ, and Prisma.
- Cut average response time by 80% (5s → 1s) via dual-queue prioritization, validated with k6 testing.
- Delivered updates under 100ms latency using Redis Pub/Sub + WebSockets, improving user interactivity.
- Scaled workers to handle 1200+ concurrent jobs with Kubernetes autoscaling and Dockerized workloads.

Technical Skills

- **Languages/Frameworks**: C++, JavaScript (ES6+), React.js, Node.js, Express.js, SQL, Tailwind CSS
- **Backend/Infra**: Next.js, Prisma, PostgreSQL, MongoDB, Redis (Pub/Sub, Queues), BullMQ, WebSockets, SSE
- **DevOps/Cloud**: Docker, Kubernetes (Pods, HPA, Ingress), Nginx, AWS (EC2, S3), CI/CD (GitHub/GitLab)

Achievements

- Redesigned college CMS, introducing self-attendance and automated proctoring, adopted by 500+ students and faculty.
- Architected distributed SaaS systems with multi-region monitoring, achieving **99.95% reliability**.
- Delivered scalable AI-driven automation pipelines, reducing manual workload by **80%**.