CH TULASI RAM

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Professional Summary

Software developer with hands-on experience in full-stack application design using Java, Spring Boot, React, and TypeScript. Known for analytical problem-solving, initiative, and delivering reliable software solutions within deadlines.

Education

B.Tech in Computer Science & Information Technology

KL University   **CGPA: 8.9 / 10.0**

Aug 2022 – May 2026   Vaddeswaram, Andhra Pradesh

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High School & Senior Secondary Education

KCP Siddhartha Adarsh Residential Public School (CBSE)

2020 – 2022   Vijayawada, Andhra Pradesh

Internship Experience

AICTE — Cloud Technologies Intern   *May 2024 – Jul 2024*

- Automated AWS provisioning using Python & Boto3, cutting server setup time from **60 minutes to under 5 minutes**.
- Configured EC2, RDS, and S3 instances with IAM least-privilege and VPC-based access control, supporting **3 concurrent test environments**.
- Developed robust deployment scripts with retry logic and error handling, improving deployment reliability by **70%**.

Projects

AI-Powered Quiz Application   *(React, TypeScript, Supabase, Grok AI)*

- Accelerated data retrieval using TanStack Query caching, reducing response latency by **40%**.
- Integrated Grok AI via Supabase Edge Functions to generate personalized 5-question quizzes based on user errors and summerize the topics where you are lacking behind.
- Supported **500+ users** and handled over **1,000 quiz attempts** during testing.

Academic Project Management System   *(Java, Spring Boot, React, Supabase)*

- Built a workflow platform to manage **50+** student projects across proposal, approval, and evaluation phases.
- Implemented JWT-based RBAC, reducing faculty approval turnaround time by approximately **30%**.

ZTNA Security Framework   *(Java, Spring Boot, React, Supabase)*

- Built a Zero Trust Network Access (ZTNA) system in Spring Boot, enforcing dynamic security policies using custom security filters.
- Optimized the backend microservice using Spring Boot and asynchronous processing for high performance and reliable operational monitoring.
- Led full-stack development, delivering a decoupled Java REST API and a modern user interface using React, Vite, and Tailwind CSS.

Technical Skills

Languages:	Java, SQL
Frameworks:	Spring Boot, React
Databases:	PostgreSQL, Supabase, MySQL
Cloud / Tools:	AWS, Supabase Edge Functions, Git, GitHub, VS Code
Concepts:	RLS Security, REST APIs, OOP's

Certifications

- **AWS Certified Cloud Practitioner** — Amazon Web Services
- **Salesforce AI Associate** — Salesforce Trailhead

Leadership & Achievements

Vice President, Rubix Club   *KL University*

- Directed a **12-member** team to host **6+** technical events and hackathons with **200+ participants**.
- Partnered with faculty mentors to secure sponsorships and promote innovation within the student community.

Team Lead — Campus Hackathon   *KL University*

- Led a **3-member** team to design and deploy a working prototype in **24 hours**, achieving top-5 recognition among submissions.