AKASH T S M

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SUMMARY

Computer Science undergraduate at VIT (**CGPA: 9.38**) with strong foundations in **backend engineering, cloud-native systems, and AI-driven applications**. Experienced in building **secure REST APIs, scalable microservices, and full-stack platforms** using **Spring Boot, Node.js, React, FastAPI, and AWS**. Seeking a **Software Engineering Internship** to apply problem-solving and system design skills in real-world environments.

EDUCATION

Vellore Institute of Technology — B.Tech in Computer Science
2023–2027 | **CGPA: 9.38 / 10**
Sunbeam Senior Secondary School — Class XII | 92%
Bhagwan Mahaveer Dayaniketan Jain School — Class X | 93%

TECHNICAL SKILLS

Languages: C, C++, Java, Python, JavaScript
Frameworks: Spring Boot, React.js, Node.js, Express, FastAPI
Cloud & DevOps: AWS (EC2, Lambda, S3), Docker, GitHub Actions, CI/CD
Databases: PostgreSQL, MongoDB, MySQL
APIs & Security: REST APIs, OAuth2, JWT, AES/RSA
AI / ML: Hugging Face Transformers, LLM APIs, Scikit-learn
Core CS: DSA, OOP, OS basics, System Design, SDLC, Agile

PROJECTS

AI-Powered Code Interview Simulator
React, Node.js, Express, MongoDB, OpenAI / Hugging Face
- Built an AI-driven coding interview platform with real-time Monaco Editor for DSA practice.
- Integrated LLM-based code evaluation to generate hints, feedback, and scoring.
- Designed logic to assess correctness, edge cases, and time complexity, improving self-assessment accuracy by ~40%.
- Implemented secure REST APIs for submissions, authentication, and session tracking.

Cloud-Based Multi-Modal Personal Knowledge Manager
React, Node.js, Express, MongoDB, AWS S3, Hugging Face
- Developed a scalable system supporting PDFs, notes, images, and videos with AI-powered search.
- Implemented semantic search and auto-summarization, reducing retrieval time by ~60%.
- Built cloud-native file ingestion using AWS S3 with metadata indexing and access control.
- Optimized APIs for high-throughput uploads and low-latency search.

Collaborative Whiteboard & Diagramming Tool (Excalidraw-like)
React, Canvas API, WebSockets, Node.js
- Created a browser-based diagramming tool supporting drawing, shapes, text, and annotations.
- Enabled real-time multi-user collaboration using WebSockets with low-latency sync.
- Designed intuitive UX with drag-drop, undo/redo, export, and optimized canvas rendering.

LEADERSHIP & ACHIEVEMENTS

- **Hackathon Finalist:** Built an AI-driven fintech fraud detection prototype in 24 hours.
- **Team Lead:** Led a 4-member team across design, backend, and cloud deployment.
- **Certifications:** Machine Learning (Andrew Ng – [Coursera](#)), Generative AI ([IBM WatsonX](#)).
- **Academic Excellence:** CGPA 9.38, top performer in college.