

# Harish B

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## TECHNICAL SKILLS

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**Languages:** Python[Advanced], Java[Intermediate], Javascript[Intermediate], Typescript[Intermediate]

**Frontend:** React.js, Next.js, Tailwind CSS, Redux Toolkit, ShadCN

**Backend:** Express.js, Node.js, FastApi

**Databases:** Postgres, Mysql, Mongo DB, Redis, SQL, Pinecone (vector DB)

**AI/ML :** RAG, Prompt Engineering, LangChain, langGraph, Cohere Embeddings, OpenAI/Gemini APIs, groq (Llama-3.3-70b)

**DevOps & Tools:** Docker, Jenkins, CI/CD (GitHub Actions), Linux, Bash, Git/GitHub, Vercel, Netlify, Firebase, AWS (EC2, S3)

**APIs & Security:** REST, JWT, OAuth 2.0, WebSockets (Socket.IO), Postman, Bruno

**Testing & Design:** Jest (Unit Testing), Figma, Stitch

## PERSONAL STATEMENT

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Software Product Engineer specializing in the MERN stack, FastAPI, and Agentic AI. Experienced in building production-ready RAG systems and high-performance AI agents. National-level competitor in algorithmic coding with a focus on engineering scalable, automated solutions for complex real-world problems.

## PROJECTS

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Nexis | [Github Repo Link](#)

Dec 2025 – Jan 2026

Developed an agentic AI system that uses intent classification and function calling to perform hybrid RAG and live MERN database operations for e-commerce support.

- **Tech Stack and Frameworks used:** MERN Stack, Cerebras (Llama-3.3-70b) Function Calling, Mongo Vector DB, Cohere embeddings, and Zod; optimized for sub-2-second response times.
- **Problem Solved :** Replaced traditional, static FAQ chatbots with a proactive agent capable of executing real-time CRUD operations on live production order schemas.
- **Impact :** Automated 75% of routine customer inquiries and implemented a sentiment-driven escalation trigger that generates context-rich briefings for human support staff.
- **Challenges Tackled :** Optimized tool-selection accuracy by engineering precise JSON schemas and solved context-window limitations through custom conversation-state management.

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RuleBook AI | [Github Repo Link](#)

Nov 2025 – Feb 2026

Developed an enterprise-grade Retrieval-Augmented Generation (RAG) system enabling employees to query HR and corporate policy PDFs with 100% source-grounded accuracy.

- **Tech Stacks and Frameworks used:** FastAPI, React.js, LangChain; integrated Cerebras LLaMA, Pinecone vector DB, MongoDB, and OAuth 2.0.
  - **Problem Solved :** Eliminated manual lookups in 100+ page documents, providing HR and compliance teams with real-time, citation-backed answers for remote-work and corporate queries.
  - **Impact / Usage:** Indexed 1,000+ document chunks, improving answer relevance by 40% via top-K semantic search and reducing policy search time from minutes to seconds.
  - **Challenges Tackled / Learning Outcome:** Prevented LLM hallucinations by engineering strict context-only prompting pipelines and optimized API performance to handle concurrent enterprise-level user traffic.
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Engineered an end-to-end AI career mentor that automates resume-to-JD gap analysis and conducts adaptive mock interviews with real-time STAR framework evaluation.

- **Tech Stack and Frameworks used:** FastAPI (Python), React, PostgreSQL, LLM Integration (Gemini), Docker, LangChain.
- **Problem Solved :** Reduces "shortlist rejection" by identifying missing competencies and providing a risk-free environment for candidates to practice technical and behavioral communication.
- **Impact :** Achieved 92% accuracy in skill gap identification; pilot testing with 20+ peers resulted in a 40% average improvement in mock interview confidence scores and delivery.
- **Challenges Tackled / Learning Outcome:** Optimized LLM latency for real-time scoring; architected a stateful conversation engine to maintain context across 10+ interview turns without losing session data.

## EDUCATION ENROLLMENT

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### Kalvium's UG program in CS (Software Product Engineering)

**2024-28**

- Campus: Coimbatore(Direct)| Bachelor's enrollment: BCA University of Mysore

## ACHIEVEMENTS & EXTRACURRICULARS

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### Hackathons & Competitions:

- **Kalvium Labs Hackathon** – Built rubric-based evaluator; deployed live demo in <24 hours.
- **Google Developer [Hackathon](#)** – Built AI prototype; won 50+ peer upvotes for innovation.
- **Google The Big Code 2026:** Selected to compete in the national-level qualifying round, solving complex algorithmic challenges among top-tier student developers across India.

### Technical Contributions:

- [Deloitte](#) Technology Job Simulation (Jun 2025) – Completed real-world coding & consulting challenges.
- Solved 156+ LeetCode problems (72 Easy, 70 Medium, 4 Hard); earned 50 Days Badge with 303+ submissions.

### Campus Engagement / Leadership:

- KLAPS Club – Strengthened public speaking & leadership through active participation.
- Mentoring and helping fellow college students with coding and career guidance