

Sahil Bharat Arate

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SKILLS

Languages & Scripting: Javascript, Python, TypeScript, Go
Frontend: React, Next.js, HTML, Tailwind CSS
Backend: Node.js, Express, FastAPI, REST APIs
DevOps & CI/CD: Docker, GitHub, GitLab CI/CD, GitHub Actions
Cloud & Infrastructure: AWS (EC2, S3, DynamoDB, IAM)
AI & LLMs: RAG, LLMs, AI Agents
Databases: PostgreSQL, SQL Server, NOSQL

EDUCATION

KLS Gogte Institute of Technology Belagavi, Karnataka
B.E. in Computer Science and Engineering (CGPA: 8.3) Aug. 2022 – Jun. 2026

PROJECTS

WeeklyAI – Multi-Agent AI Weekly Planner | [Live](#) | [GitHub](#)

- Built this because most planner apps just store tasks, they don't actually think about your week, so I made an AI system with **LangGraph** using 5 agents talking to each other through a typed StateGraph to turn one plain-English prompt into a full weekly schedule.
- Developed backend streaming infrastructure via **FastAPI** and WebSockets; implemented semantic context tracking with **pgvector** and OpenAI embeddings, reducing manual adjustments by **40%**.
- **Core Stack:** Python, FastAPI, LangGraph, LangChain, WebSockets, PostgreSQL, Redis, Next.js, Docker, Git.

QueryGraph – LLM-Powered Data Intelligence | [Live](#) | [GitHub](#)

- Engineered an analytical intelligence pipeline mapping complex relational database architectures into visual knowledge graphs by converting plain-text queries into valid, optimized SQL statements.
- Implemented a dual-database synchronization model coupling **PostgreSQL** (analytics) with **Neo4j** (graph traversal) via SSE streaming, accelerating business anomaly discovery by **50%**.
- **Core Stack:** Python, FastAPI, PostgreSQL (Neon), Neo4j AuraDB, Cytoscape.js, Next.js, Docker, Linux.

INTERNSHIP EXPERIENCE

SuperMentor

Full Stack Developer Intern Jan. 2026 – Apr. 2026

- **Built** a scalable mentorship platform with AI-powered session scheduling using **Next.js**, **React**, **Node.js**, **Express**, **PostgreSQL**, and **TypeScript** with a modular, type-safe component architecture.
- **Engineered** an **Agentic AI** mentor-matching workflow with **DynamoDB** session state and **AWS EC2** deployment via automated **CI/CD pipelines**, cutting release time by **60%** and API latency by **25%**.

Prodigy Infotech

Full Stack Web Development Intern Mar. 2024 – May. 2024

- **Resolved** 10+ critical bugs on the Prodigy Infotech website and 3 client apps by diagnosing broken UI flows, API failures, and rendering issues using browser DevTools and server logs.
- **Rebuilt** slow pages with optimized **React** components and lazy loading in **TypeScript**, cutting page load time by **30%** and significantly improving user experience scores.

Eyesec Cyber Security Solutions Pvt. Ltd.

Cloud Security Intern Jun. 2023 – Aug. 2023

- **Audited AWS** and **GCP** environments spanning **EC2**, **S3**, **DynamoDB**, and **IAM**, identifying misconfigured policies and remediating **35%** of open security vulnerabilities.
- **Automated** compliance checks via Python scripts on **S3** bucket policies and **DynamoDB** access logs, reducing manual audit time by **40%** and ensuring continuous regulatory alignment.

AWARDS AND ACHIEVEMENTS

1st Prize – National Level IoT Hackathon (2023): Independently built an end-to-end RFID attendance system syncing real-time telemetry into a relational database with multi-role apps for professors, parents, and students.

Open Source Contributor: Actively contributing bug fixes, documentation, and modules to **Cal.com** and **Supabase** on GitHub.

Guest Technical Trainer – Theta Dynamic: Conducted full-stack workshops (React, Node.js, REST APIs) for engineering students; honored with an **Appreciation Award** for outstanding contribution to student learning outcomes.