

SOORAJ

Software Engineer

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Bengaluru, India

in [Linkedin](#)

[Github](#)

[Leetcode](#)

EXPERIENCE

Software Engineer

Carelon Global Solutions

Jul 2023 – Present

Bengaluru, India

- Architected LLM-powered Data Catalogue Chatbot with intelligent query classifier using RAG pipeline, LangChain agents, and vector database for contextual SQL generation and visualization.
- Optimized for sub-second queries on 1M+ row database and 35% fewer re-renders for 500+ daily users via MySQL B-tree indexing, streaming responses, and React optimization (use-Callback/useMemo).
- Deployed Data Catalogue with JWT authentication, AWS Secrets Manager for API key management, and CI/CD pipeline with GitFlow reducing release cycles by 40%.
- Engineered Livinglabs AWS compliance dashboard with real-time monitoring of EC2 instances, Lambda functions, and S3 buckets.
- Created automation scripts analyzing CloudWatch logs and AWS configurations, reducing security vulnerabilities by 70%.
- Implemented Terraform IaC for AWS provisioning with Secrets Manager for credential rotation across microservices.
- Constructed MongoDB aggregation pipelines for cost analysis processing 1,000+ database records and integrated Proof-point Relay with SMTP for intelligent email routing based on IP restrictions.
- Established SSO session transfer mechanism for seamless authentication across Livinglabs child projects, eliminating authentication friction for 200+ users.
- Led end-to-end POC with DevOps automation and containerized microservices.
- Designed interactive clinical insights dashboard with wellness tracking and real-time analytics serving 200+ users. Integrated speech-enabled chatbot for agentic automation.
- Automated CI/CD by provisioning EC2 instances, deploying apps, and initializing repos via Boto3 + IAM, cutting setup to under 3 minutes.
- Frameworks and Techstacks Used: FastAPI, Next.js, React, LangChain, Terraform, MySQL, MongoDB, AWS (EC2, Lambda, S3, CloudWatch, Secrets Manager), Boto3, Docker

ACHIEVEMENTS

- Solved Over 500+ Coding Problems on Leetcode - [Profile Link](#).
- Achieved a 1676 Max LeetCode Contest Rating.
- Secured Rank 1445 in Google Kickstart Round H 2022.
- Passed Microsoft Azure AI Fundamentals (AI-900) with 747/1000 [Certificate Link](#).
- Received 5+ Impact Points Award for technical excellence in Livinglabs portal enhancements.

PROJECTS

ML Heat Transfer Prediction

(AI-Powered Prediction App)

- Python | Next.js | FastAPI | TensorFlow | Auth0
- Developed ANN model with 99.2% accuracy on 5,000+ test cases, reducing prediction time by 80% compared to traditional methods.
- Benchmarked 6 ML models, achieving 15% faster inference.
- Production app with versioned models and 500+ monthly runs.
- [GitHub](#)

Emergency Response Management

(Emergency Management System)

- Node.js | Next.js | TypeScript | Redis | JWT
- Added Redis caching with TTL for faster incident lookup, reducing response time by 60%.
- Geolocation-driven hospital routing with proximity logic, optimizing dispatch efficiency by 40%.
- Real-time ambulance tracking + DB indexing.
- Automated dispatch via nearest-location algorithm.
- Admin panel with CRUD workflows.
- [GitHub](#)

TECHNICAL SKILLS

- Languages:**
 - JavaScript, TypeScript, Python, C++, SQL, Bash
- Cloud & DevOps:**
 - AWS: EC2, Lambda, VPC, IAM, S3, ECR, Secrets Manager, CloudWatch, Route53
 - Docker, Podman, Terraform, CI/CD, IaC, Git, Bamboo, Boto3, GitFlow
- Frameworks & Libraries:**
 - React, Node.js, Express, Next.js, FastAPI, Angular
 - Tailwind CSS, Redux, Auth0, JWT
- AI/ML:**
 - LangChain, RAG, FAISS, LLM APIs, Speech Recognition, TensorFlow, Scikit-learn
- Databases:**
 - MySQL, MongoDB, Redis

EDUCATION

B.Tech. (Mechanical Engineering)
- 8.59 CGPA | Computer Science
(Minor) - 8.0 CGPA

National Institute of Technology Karnataka

Jul 2019 – May 2023