

SOORAJ

Software Engineer

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📍 Bengaluru, India

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Leetcode

Portfolio

EXPERIENCE

Software Engineer

Carelon Global Solutions

⌚ Jul 2023 – Present

📍 Bengaluru, India

- Optimized database queries achieving **sub-second response times** on **1M+** row MySQL database serving **500+** daily users through **B-tree indexing**, query optimization.
- Architected **full-stack data catalogue application** with RESTful API backend (FastAPI) and React frontend, handling **1000+ concurrent requests** with streaming responses and optimized rendering using `useCallback/useMemo`, achieving **35% fewer re-renders**.
- Designed and implemented **MongoDB aggregation pipelines** for cost analysis processing **10,000+ records daily**, enabling real-time analytics across multiple microservices with interactive data visualization interfaces.
- Implemented **LangChain-powered RAG pipeline** with FAISS vector database for contextual query understanding, enabling **natural language to SQL conversion** with intelligent agent-based routing across multiple data sources.
- Developed **SSO authentication system** with JWT token management and session transfer mechanism, enabling seamless authentication across multiple applications for **200+ users** with secure credential rotation.
- Engineered **intelligent email routing system** integrating Proofpoint Relay with SMTP, implementing IP-based domain selection to send the email in external / internal network.
- Built an internal **developer automation platform** using **FastAPI** and **Next.js** to automate AWS infrastructure provisioning and GitFlow-based CI/CD with Docker, Terraform, Boto3, and IAM, including blue-green deployments and log monitoring, reducing deployment cycles by **40%** and setup time to under **3 minutes**.
- Led an end-to-end **POC for Living labs**, developed an **Vulnerability compliance monitoring system** across EC2, Lambda, and S3 that reduced security vulnerabilities by **70%**, while mentoring **3 interns** on full-stack development and deployments.
- Tech Stack: Node.js, Python, FastAPI, Express, React, Next.js, TypeScript, LangChain, MySQL, MongoDB, Redis, FAISS, AWS (EC2, Lambda, S3, CloudWatch, Secrets Manager), Docker, Terraform, Boto3, Git, JWT , VPC , Subnet , Security Groups

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.
- 1750+ Contest Rating** in Codechef
- 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 Model Serving API



(FastAPI Production Backend)

- Python | FastAPI | TensorFlow | Docker | Auth0 | Nextjs
- Built FastAPI backend with async endpoints and model versioning system, processing **500+ requests monthly** with **80% faster response times** and sub-second latency.
- Deployed **6 model architectures** through unified REST API with **99.2% prediction accuracy** on 5,000+ test cases and **15% improved inference speed**.
- Implemented Auth0 JWT authentication and containerized with Docker for production deployment.

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**.

TECHNICAL SKILLS

Languages:

- Python, JavaScript, TypeScript, SQL, Bash, C++

Frameworks:

- Node.js, Express, FastAPI, REST APIs, Web-Sockets, Microservices , Nextjs , Reactjs
- JWT, Auth0, OAuth2.0

Databases:

- MySQL, MongoDB, Redis, Database Indexing, Query Optimization

Cloud & DevOps:

- AWS: EC2, Lambda, S3, VPC, IAM, CloudWatch, Secrets Manager, Route53
- Docker, Terraform, CI/CD, IaC, Git, GitFlow, Boto3

EDUCATION

B.Tech. (Mechanical Engineering)

- 8.59 CGPA | Computer Science (Minor) - 8.0 CGPA

National Institute of Technology Karnataka

⌚ Jul 2019 – May 2023