

ASHISH BIRAJDAR

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TECHNICAL SKILLS

Languages	JavaScript , Python, C, C++, SQL
Backend	Node.js, Express.js, REST API design, JWT, Redis, Socket.io
Frontend	React.js, Vite, HTML, CSS, TailwindCSS
Databases	MongoDB, PostgreSQL, MySQL, SQLite, Redis
DevOps & Cloud	Docker, GitHub Actions, Render, Vercel, Railway
Tools	Git, GitHub, Postman, Valgrind, Make/CMake, Prompt Engineering

WORK EXPERIENCE

Software Engineering Intern — Mechiee

Jan 2025 – Present

Doorstep two-wheeler servicing startup, Pune | mechiee.in

- Designed and implemented the end-to-end backend architecture for a six-role platform (Customer, Mechanic, Garage Owner, Admin, Sub-Admin, Staff) covering Auth, Booking, Garage, and Mechanic modules.
- Built OTP + JWT authentication with Redis-backed session management and integrated Signzy KYC for mechanic onboarding.
- Implemented a Booking state machine with Redis-based slot-hold, smart mechanic assignment engine, and append-only audit history for full traceability.
- Developed and deployed a full Blog CMS (MERN stack) with Cloudinary image handling, auto-slug generation, and a Tiptap rich-text editor, serving editorial and marketing use cases.
- Built 8 SEO-optimised location landing pages for Pune with a Redis caching layer, Mongoose schema, and REST API endpoints to improve organic search presence.
- Collaborated with the tech lead on production codebase using Git-based workflows, Postman API testing, and cross-team code review.

PROJECTS

AI SQL Assistant | github

2024

React · Node.js · Express · SQLite · Google Gemini API · Render

- Web application that converts natural language queries into SQL using the Gemini API, executes them against an in-memory SQLite database, and renders results in a formatted table.
- Designed the prompt layer to handle schema-aware query generation and graceful error feedback for invalid inputs.

Prompt Wars CLI Tool — AISSMS ITSA | github

2024

Python · Google Gemini API · GitHub Actions · PyInstaller

- Built a secure cross-platform CLI tool to run prompt engineering competitions, featuring regex-validated input, Gemini API integration, and automated packaging via GitHub Actions and PyInstaller.
- Reduced manual distribution overhead by enabling one-command binary builds for Windows, macOS, and Linux.

DSA-Lib | github

2024

C · Make · Valgrind · Git

- Authored a custom C library of generic data structures (linked lists, stacks, queues, trees) using static linking and MIT licence.
- Managed builds, tests, and installation with Makefile automation; used Valgrind for memory debugging, reinforcing low-level memory management and modular design principles.

Mechiee Blog System

2025

MERN Stack · Cloudinary · Tiptap · JWT

- Full blog CMS for Mechiee with role-protected admin panel, rich-text editing via Tiptap, Cloudinary-hosted images, and auto-generated slugs.
- Built two public-facing pages (blog index, post detail) and four admin pages (dashboard, create, edit, manage) with JWT-secured routes.

Mechiee SEO Landing Pages

2025

MERN Stack · Redis · Mongoose · REST API

- Developed 8 location-specific SEO landing pages for Pune localities with a Mongoose schema, Express API endpoints, and a Redis caching layer to reduce database load.
- Worked as the backend engineer; collaborated on a shared design system for the React frontend.

ACHIEVEMENTS & ACTIVITIES

Joint Technical Secretary, ITSA — AISSMS IOIT

2025

Co-organised technical events and coding competitions for the IT department's student association.

EDUCATION

B.Tech in Information Technology

2023 – 2027

AISSMS Institute of Information Technology, Pune | CGPA: 8.96 (Ongoing)