

Saurabh Bakolia

saurabhbakolia2002@gmail.com | +91 7297001804 | portfolio.scrollme | linkedin.com/in/saurabhbakolia
github.com/saurabhbakolia

Education

M.Sc. (5Y), Economics	Indian Institute of Technology, Kharagpur	Oct 2020 – May 2025
-----------------------	---	---------------------

Experience

Software Engineer Cambridge Technology Enterprises Limited, Hyderabad	May 2025 - Current
---	--------------------

- Developed a Resource Tracker App with **Angular** and **Kendo UI**, featuring role-based dashboard access via **JWT** tokens.
- Built the backend using **ASP.NET** Core with a 3-tier architecture and designed **SQL** schema with stored procedures and **TVPs**.
- Delivered production support by fixing bugs, improving features, and deploying applications on **Vercel** and **Azure** cloud.

Software Engineer Shadow Clone Research Labs	Feb 2025 - April 2025
--	-----------------------

- Built a cross-platform distributed systems application using **Electron.js**, **React.js**, and **Node.js**, ensuring desktop integration.
- Integrated and managed local **MCP** server runtime with dynamic port configuration, real- feedback, and restart capabilities.
- Implemented encryption using Electron for sensitive data, enabling authorized access and safeguarding against tampering.
- Added logic to install MCP through npm, run Studio and SSE MCP servers, and enable installation via GitHub repository link.

Contract Software Engineer Manufacturing Technology Startup	May 2024 - Nov 2024
---	---------------------

- Developed browser-based applications for a manufacturing startup using React.js, TypeScript, and Jotai, enhancing UI/UX.
- Implemented backend features with **Prisma ORM** and **SQL**, integrating **PostgreSQL** and utilizing **TRPC** for optimized API.
- Utilized the Hoops library for 3D CAD visualization and optimization, Docker for containerization, and AWS for cloud hosting.

Front-end Engineer SyncMOF	May 2024 – July 2024
------------------------------	----------------------

- Led front-end development of the Black Box project using **ReactJS** and automating deployments with **CI/CD** via AWS Amplify.
- Designed UI/UX wireframes with **Figma**, integrated **AWS Amplify Auth** for authentication, and **React Flow** for workflows.
- Developed scalable architecture using **Docker**, **Elastic Beanstalk**, and **AWS CloudWatch** for effective resource management.

Full-stack Developer Darzee	Oct 2023 – Feb 2024
-------------------------------	---------------------

- Developed and optimized **Spring Boot API**, integrating microservices with **PostgreSQL** to ensure scalability and solutions.
- Implemented multi-outfit and multilingual features in the Darzee app, driving a 20% increase in retention with improved UX.
- Automated backend operations with **Python** scripts, leveraging **Linux cron** jobs and Firebase for advanced user management.

Full-stack Developer Noccarc Robotics	May 2023 – Oct 2023
---	---------------------

- Engineered a full-stack admin dashboard with **ReactJS** and **Redux** for V730i ventilator updates, using **WebSocket** real-time.
- Deployed backend on **AWS EC2** with Node/Express, using Multer for file uploads and **AWS SDK S3** for secure version storage.
- Engineered a CMS mobile app for patient monitoring with **React Native**, **WebSocket**, **Redux**, and integrating a **REST API**.

Full-stack Developer Hippiees	Jan 2023 – March 2023
---------------------------------	-----------------------

- Optimized the Visa Service Portal with **PHP** and **MySQL**, achieving a 10% performance boost, 5% increase in accessibility.
- Led deployment via **FileZilla** and **Apache**, ensuring seamless integration and maintaining tech documentation for scalability.
- Enhanced user experience by refining responsive design, updating UI, reducing load times by 15% improving site efficiency.

Competitions

-
- Built the Global Weather app from scratch, contributing 2k+ lines of code using Pug and JavaScript to optimize functionality.
 - Contributed bug fixes and features to open-source projects via **Hacktoberfest**, **HackSquad**, and GirlScript Summer of Code.

Positions of Responsibility

General Secretary - Social and Cultural HJB Hall of Residence	Session 2022-23
---	-----------------

- Represented over **160** boarders of HJB Hall in Gymkhana's Social & Cultural Subcommittee, supporting hall interests.
- Managed an annual budget of INR **1.8 Lakh** for social and cultural activities at Homi Jehangir Bhabha Hall, IIT Kharagpur.
- Coordinated logistics for 12 events in Social & Cultural Gymkhana Championship and 4 Open IIT competitions for 2022-2023.

Skills and Expertise

Languages: C++, C, PHP, Python, SQL, JavaScript, Typescript, Java, ASP.Net, C#.

Libraries | Frameworks: Node.js, Next.js, React.js, Angular, React Native, Redux, Tailwind CSS, Spring Boot, Flutter.

Software | Developer Tools: Git, Github, XCode, Figma, VsCode, Android Studio, AWS, Firebase, Azure, SQL.