

Saurabh Bakolia

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Education

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

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

Front-end Developer Leads4Needs	Jun 2022 – July 2022
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- Engineered responsive front-end for a business directory and job portal website with **Next.js** and **Tailwind CSS**, improved UX.
- Developed 40+ reusable web components with **React.js** and **Next.js**, ensuring scalability and cross-browser compatibility.

Projects

E-Commerce Website	open-source
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- Developed and open-sourced an e-commerce shopping cart application using **React**, **Redux**, **Styled Components**, **MongoDB**.

Authentication System | Freelance Project

- Designed and implemented a reusable authentication system using **ReactJS**, **TypeScript**, and **Material UI**, integrated **JWT**.

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

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
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- 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.

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

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