

## Sourabh

Lead Software Engineer | Pune, India

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Software Engineer with **3.2+** years of experience building enterprise healthcare applications at scale. Skilled in Java, Spring Boot, Python, Angular/React, and cloud-native development, with a strong focus on clean architecture, data-driven features, and performance optimization. Proven ability to deliver secure, maintainable systems in Agile and regulated environments.

## Technical Skills :

Backend (Primary)	Java (Spring Boot, Microservices, REST APIs)
Backend (Secondary)	Python (FastAPI, Flask, Data Visualization, GenAI), Node.js & Express
Frontend	Angular (Primary), React (Secondary), GoJS, D3.js, html2canvas, agGrid
Databases & Cloud	SQL, MongoDB, AWS, Docker, CI/CD
Design & Tools	Figma, Photoshop, Illustrator, SonarQube, Postman

## Work Experiences :

Lead Software Engineer **Persistent Systems Ltd.** – July 2022 – Present | Full Time | Pune, India

Contributing to the end-to-end development of a large-scale **clinical trial optimization platform** for a **Fortune 500 global healthcare technology** firm, with a focus on **high-performance, modular architecture** and **domain-driven analytics**.

- Worked closely with the **core product team** to design, develop, demonstrate and test features for a **clinical trial management** system used across 40+ countries and top pharmaceutical organizations.
- Integrated application with **ETL-based source systems** to ingest operational trial data from global pipelines, ensuring reliable synchronization with the platform's backend processes using **custom algorithms** and data cleaning using python libraries like **pandas**.
- Worked with forecasting **APIs** for patient randomization, enhancing planning **accuracy** and **analytics** for large-scale trials.
- Built rich, interactive **data visualizations** using **D3.js, GoJS, and html2canvas**, enabling users to analyze operational performance and trial progress.
- Contributed to a modular **multi-SPA frontend setup**, where multiple applications share a common codebase and reusable component library to ensure consistency, maintainability, and efficient parallel development.
- Designed and integrated **custom grid components** (ag-Grid) with advanced filtering, sorting, pagination, and contextual actions to manage large datasets efficiently.
- Modernized UI by upgrading frontend libraries and frameworks, improving security posture, performance, and aligning with enterprise UX guidelines.
- **Resolved critical production issues and backlog items**, proactively identified and mitigated **security vulnerabilities**, and enforced quality standards through PR reviews, **SonarQube analysis**, and **automated tests**.
- Worked in a **HIPAA-compliant environment**, following enterprise development practices for **secure code, traceability, and audit readiness**.
- Participated in **Agile ceremonies** (sprint planning, story grooming, stakeholder demos) and collaborated cross-functionally with QA, DevOps, and design teams to ensure smooth feature delivery
- Recognized as **Top Talent** for two consecutive years (**FY23 & FY24**), awarded to the top percentile of engineers across Persistent Systems for exceptional contribution and performance.

## Education :

- **B.Tech in Electronics and Communication Engineering -**

*Dr. B. C. Roy Engineering College (MAKAUT) Aug 2018 - June 2022 | Durgapur, West Bengal*

## Certifications and Achievements :

- **Top Talent FY24 & FY23** - Persistent Systems - *May 2023 / May 2024*
- **Azure Fundamentals (AZ-900)** - Microsoft - *June 2022*
- **SnowPro Core** - Snowflake Inc. - *June 2023*

## Personal Projects:

**Eduverse.ai** - *March 2025 - April 2025* - Links : [Preview](#) [Code](#)

An AI-powered learning path generator that recommends dynamic learning journeys, as part of **Semicolons 2025 Hackathon**.

- Built the frontend using React + Python backend, enabling real-time response streaming and chat interface.
- Complex state management and meaningful user-interface with a business purpose.

**Healthcare Automation Platform - Health.io** - *June 2021 - July 2022* - Links : [Frontend](#) [Backend](#) [Admin](#)

Multi-module system for e-prescription, inventory, and health records.

- Led frontend for admin and clinician portals using Angular and Angular Material. Designed GoJS-based patient flow editors and prescription generation UI.

## Seat Allocation System

*March 2022 - April 2022*

An angular-based interface for dynamically allocating train seats using optimized proximity algorithms, build as part of **Unstop Hackathon**.

- Built frontend using angular with color-coded visualization of seat occupancy.
- Demonstrated dynamic programming concept in using a real world problem.

Links : [Preview](#) [Code](#)