

# SAURABH MAHAJAN

SOFTWARE ENGINEER | FULL STACK DEVELOPER | JAVA DEVELOPER | REACT DEVELOPER

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Seasoned Software Engineer with over 2.5 years of experience designing & developing diverse Cyber Security SaaS platforms. Achieved top rank nationwide in the national computer fundamentals exam, C-CAT. Strong proficiency in designing & maintaining scalable, resilient platforms & microservices architecture with a wide range of technologies including Java, JavaScript, Spring Boot, React.js, AWS & more. Proactive problem solver with a proven track record of leading migrations, driving efficiency improvements & implementing cutting-edge features across multiple projects.

## SKILLS

- RESTful APIs, HTTP, gRPC, GraphQL, OAuth, Object Oriented Programming (OOPs), Agile & Microservices
- Java, Python, JavaScript, Typescript, RDBMS, SQL, PL/SQL, NoSQL, HTML5, CSS3 & UI/UX Design
- Spring Framework, Spring Boot, Spring MVC, Hibernate, Maven, JUnit, JaCoCo, React.js & Redux
- Git, GitHub, Amazon Web Services (AWS), Continuous Integration/Continuous Delivery (CI/CD) & Docker

## PROFESSIONAL EXPERIENCE

### Software Engineer | NetSPI, India

July 2023 – Present

- Collaborated with cross-functional teams in developing & maintaining a microservices-based architecture, by merging multiple monolithic SaaS platforms into a unified platform within a containerised environment using Docker, illustrating stellar teamwork, which improved the deployment efficiency & system scalability by 30%.
- Led the migration of BAS legacy UI codebase to modern React, achieving 40% improvement in conversion rates through responsive design & 50% reduction in page load times by code refactoring & lazy loading techniques.
- Spearheaded the design & development of Restful APIs for client admin functionality, by leveraging AOP from Spring & PostgreSQL joins & views to provide complex authorization scope handling, empowering controlled admin privileges for client users, which resulted in significant increase in overall client satisfaction.
- Integrated AWS serverless solutions in a Spring & React web application with efficient time management, including an AWS Lambda-based data importer for MITRE Software & Groups to align the product with industry standards & AWS S3 to manage over 150k+ images & files to enhance performance & user experience.
- Engineered PostgreSQL performance tuning of the authorization architecture of NetSPI Platform, a heavy-duty SaaS platform, by leveraging tools like EXPLAIN ANALYZE, resulting in 30% reduction in query response time.
- Mentored newly joined team members by empowering & helping them through comprehensive training in Software Development Life Cycle (SDLC), agile, product, debugging & tech practices, improving the product's advancement by 20% through the team's contribution, showcasing excellent leadership & management skills.

### Associate Full Stack Engineer | NetSPI, India

May 2022 – June 2023

- Implemented Multi-Factor Authentication (MFA) in Spring, utilising TOTP to support Microsoft Authenticator app & SMS verification, with an innovative login flow using React & TypeScript, incorporating MFA, password expiry & password reuse prevention features elevating user engagement & decreasing unauthorised access by 30%.
- Designed & developed an in-product reporting framework in React enabling dynamic PDF generation with Highcharts integration, depicting outstanding decision making skills, & engineered an out of the box JavaScript & Web workers solution that enhanced the PDF downloading efficiency by 95% on the background thread.
- Optimised analysis capabilities of TTP Coverages & data filtering APIs by 40% for large-scale data processing, demonstrating remarkable problem solving capabilities & built a UI supporting shareable filters through URL.

## RECENT PROJECTS

### Opus - A Corporate Management System

[ [GitHub](#) ]

Pioneered the development leveraging React, JavaScript, TypeScript, Redux & Material UI for frontend development & Java, Spring, Hibernate & MySQL for backend development, ensuring 100% controlled privileges using a robust Role-Based Access Control (RBAC), automating API data generation with Open API & orchestrating a CI/CD pipeline using GitHub Actions with a self-hosted runner on AWS EC2 for Spring, RDS for MySQL & Vercel for React.

### Acadia - A Learning Management System

[ [Demo](#) ] [ [GitHub](#) ]

Developed the project using MongoDB, JavaScript, Node.js, Express, React with NextJS, featuring seamless OAuth login/signup, secure cookie session management, cache management with redis, integrated YouTube video, 100% controlled privileges, Razorpay integration for payments, responsive UI, light/dark mode, email notifications, live WebSocket notifications, specialised data visualisation with recharts & automated maintenance tasks with cron.

## EDUCATIONAL QUALIFICATIONS

### Post Graduate Diploma in Advanced Computing (Computer Science) | 85%

Sept 2021 - Apr 2022

Centre for Development of Advanced Computing, India

### Bachelor of Engineering | CGPA - 7.59/10

Aug 2017 - Nov 2020

Pune University, India