

# SAURABH MAHAJAN

FRONT-END DEVELOPMENT | BACK-END DEVELOPMENT | RELATIONAL DATABASE MANAGEMENT | CLOUD COMPUTING

[saurabhmahajan854@gmail.com](mailto:saurabhmahajan854@gmail.com) | [LinkedIn](#)

- Fast-paced Full-stack Software Engineer with 2 years of experience and a proven track record of leading transformative initiatives in advanced technological solutions.
- Adept at architecting high-performance applications and fostering collaboration to deliver secure, cutting-edge outcomes.
- Skilled in a wide range of technologies, including but not limited to Java, C#, Python, JavaScript, TypeScript, Spring Boot, .NET, AWS, React, Redux, CI/CD Practices, SQL, and Cloud Computing.
- Expertise in managing notable projects like Opus (A Corporate Management System), Portfolio (A personal branding platform), 3D Portfolio (A portfolio showcasing developers' expertise), and Emerald Oasis (A Multi-Cuisine Restaurant Management System).
- Recipient of prestigious awards such as CCAT 2021 All India Rank 1 and first prize in a national-level paper presentation.
- Lifelong learner with certifications in AWS Cloud Practitioner, Complete Python Bootcamp, and more.
- Committed to staying at the forefront of technology and applying learning to real-world applications.

## CORE COMPETENCIES

Full Stack Development	Back-end Development	Front-end Development	Relational Databases
Cloud Services	Cloud Computing	Continuous Integration	Continuous Deployment
Software Development	System Design	Agile Methodologies	Microservices

## TECHNICAL SKILLS

- Java, C#, Python, JavaScript, Typescript, SQL, HTML, CSS, Spring Boot, Spring Framework, .NET, React, Redux
- Git, GitHub, Amazon Web Services (AWS), Docker, CI/CD (Continuous Integration & Continuous Delivery)
- RDBMS, REST APIs, Microservices, Containerisation, OOP, System Design, Agile, Data Structures & Algorithms

## CERTIFICATIONS

- AWS Cloud Practitioner 2024
- The Complete Python Bootcamp 2023
- PreCAT – Computer Science Fundamentals by Sunbeam 2021

## PROFESSIONAL EXPERIENCES

### NetSPI, India

May 2022 – Present

#### Growth Path:

Software Engineer

Jul 2023 – Present

Associate Full Stack Engineer

May 2022 – June 2023

#### Working as Software Engineer:

- Pioneering the integration of Multi-Factor Authentication (MFA) using the Spring Framework with Java, boosting security measures through phone verification and Microsoft Authenticator, and decreasing unauthorized access by 30%.
- Facilitating seamless data management and storage solutions by integrating AWS S3 and an AWS Lambda-based data importer into a Spring application for MITRE, enhancing operational efficiency by 15%.
- Revolutionizing a new login flow using React and TypeScript, incorporating MFA, password expiry, and reuse prevention features to elevate security and user experience.
- Developing client admin functionality with controlled admin privileges to client users using PostgreSQL joins, views, and complex authorization scope handling in Java with Spring, complemented by its user management UI in React.
- Played a key role in developing a microservices-based architecture utilizing Docker containers, resulting in a 30% improvement in deployment efficiency and a significant increase in overall system scalability.
- Providing mentorship to newly joined team members, empowering, and helping them through comprehensive training in product, code, and tech practices and ensuring their effective contribution to the project's advancement.

#### Working as Associate Full Stack Engineer:

- Led the transformation of the Breach and Attack Simulation (BAS) application from a company-centric to a more operation-centric approach, and improved security threat detection and mitigation by 25% through enhanced dashboard and API optimization.
- Fostered a collaborative team environment, and significantly improved problem-solving efficiency and team productivity by 15% through innovative feature development and efficient code practices while working on features like MITRE Software and Group import with the STIX model in C# as well as JAVA.
- Engineered a novel product reporting feature utilising a PDF generation library in React and achieved a 60% reduction in report generation time with a unique JavaScript and Web workers solution.
- Enhanced data filtering and analysis capabilities for TTP Coverages using .NET Core with a 40% increase in speed and accuracy for large-scale data processing.
- Demonstrating exceptional adaptability with cross-functional and globally dispersed teams by swiftly transitioning and excelling in a new project, contributing to a 15% faster project advancement.

## PROJECTS HANDLED

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### Project 1: Opus – A Corporate Management System

[Live Demo](#)

[GitHub link](#)

- Developed a React, Redux, and Material UI-based admin dashboard, empowering administrators with intuitive controls for efficient system management.
- Spearheaded the development of an intelligent access management system using Java, Spring, TypeScript, React, Redux, and MySQL and ensured robust Role-Based Access Control (RBAC) for seamless user operations alignment.
- Automated API and DTO generation with Open API and bash scripting and enhanced communication consistency and efficiency between frontend and backend components.
- Orchestrated a CI/CD pipeline using GitHub actions with a self-hosted runner on AWS EC2 for SpringBoot app, RDS for MySQL & Vercel for React.
- Implemented a secure SMTP server with Gmail for user registration and enhanced security and user experience.

### Project 2: Portfolio – A Personal Branding Website

[Live Demo](#)

[GitHub Link](#)

- Crafted an extensive platform using React, Next.js, and TypeScript to showcase personal brand and portfolio, providing a seamless user experience.
- Integrated cloud services and CI/CD practices with Vercel and ensured robust, scalable web applications and global accessibility.

### Project 3: 3D Portfolio for Developers

[Live Demo](#)

[GitHub Link](#)

- Developed an innovative web application utilizing React, Three.js, and TypeScript and incorporated 3D components to display a developer's skills, expertise, and projects in a modern, engaging format.
- Implemented CI/CD with Netlify and ensured efficient development workflows and automated deployment processes.

### Project 4: Emerald Oasis – A Multi-Cuisine Restaurant Management System

[GitHub Link](#)

- Led the integration of a comprehensive restaurant management system for roles including Admin, Delivery Person, and Customer using Java, Spring, MySQL, JavaScript and React and streamlined operations across the board.
- Enabled effective management of cuisines, dishes, orders, and user profiles and incorporated features like order tracking and profile management for an enhanced user experience.

## EDUCATIONAL QUALIFICATIONS

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### PG Diploma in Advance Computing

Centre for Development of Advanced Computing

India

2022

### Bachelor of Engineering

Pune University

India

2020

### Diploma in Mechanical Engineering

Maharashtra State Board of Technical Education

India

2017