

Somya Agarwal

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EDUCATION

Vellore Institute of Technology, Bhopal

2022 -2026

Bachelor of Technology in Computer Science GPA - 8.38/10

10th Standard - Percentage – 89.4%

12th Standard – Percentage – 89.25%

WORK EXPERIENCE

Software Developer Trainee, Deeporion Technology

October 2024 –January 2025

- Worked with modern development frameworks, contributing to real-world projects and debugging tasks.
- Gained hands-on experience in a professional software development environment, adhering to industry best practices.
- Developed and optimized scalable web applications using React.js, Node.js, and Express.js, improving performance and user experience.
- Engineered and maintained databases using MongoDB and PostgreSQL, achieving data integrity across 10+ applications while enhancing query performance to reduce retrieval times by an average of 35 seconds.
- Gained Implemental RESTful APIs to facilitate seamless communication between front-end and back-end services.

SKILLS AND EXPERTISE

Languages : Python, JAVA, C, C++, HTML5, CSS3, JavaScript.

Databases : MySQL, SQLite, MongoDB

Cloud Technologies : AWS (Lambda, API Gateway, IAM, EC2, JavaScript SDK, S3).

Frameworks and Tools : GIT, REST, Spring Boot, Flask, Node.js, React.js.

Testing/Others : Junit, RSpec, Terraform.

ACADEMIC PROJECTS

Wanderlust Website

Winter 2023

- Crafted a streamlined platform that allowed effortless management of 2,000+ listings and integrated real-time notifications for updates and reviews; enhanced user engagement metrics, leading to a 25% increase in active users.
- Engineered a robust data storage system that improved retrieval speeds by 40%, enabling access to critical information for 15+ team members and enhancing overall operational efficiency in data management processes.

Predictive health Insurance Model for Shield Insurance

Summer 2024

- Implemented a predictive health insurance model using machine learning algorithms, achieving an accuracy of over 67% in estimating insurance premiums based on health and lifestyle factors.
- Created an interactive web application for underwriters, integrating predictive analytics and cloud deployment to streamline insurance premium calculations and risk assessment.

Open Library

Fall 2024

- Coordinated marketing efforts for 'Open Library,' utilizing social media campaigns and partnerships, which led to a 50% increase in user sign-ups within two months and positioned the platform as a go-to resource for novel enthusiasts.
- Analyzed and implemented an intuitive user interface that facilitated seamless navigation for over 5,000 users, resulting in a 40% increase in daily novel searches and a 25% boost in overall engagement metrics.

CERTIFICATIONS

- Full Stack Development from Apna college | Coursera Frontend verified from John Hopkin's University | NPTEL Modelling and Analytics for Supply Chain Management
- Introduction to DevOps (IBM) | Cyber Security (IBM)

ACHIEVEMENTS

- **Smart India Hackathon:** Led project initiatives, driving brainstorming sessions and developing a prototype ranked top 5 among 200+ submissions, highlighting creativity and technical expertise.
- **HackOnBlocks:** Directed a high-impact prototype that earned recognition as one of the top 10 projects out of 150+ teams, demonstrating strong design and execution.
- **College Hackathon:** Innovated a collaborative online space enabling real-time exchange of ideas among students while gathering critical input on course materials from more than 200 users to enhance overall learning experiences.