

Sandhya Kumari

Software Developer

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Professional Summary

Versatile **Software Developer** with a strong foundation in **Computer Science principles, Data Structures, and Algorithms**. Proficient in **Java, C++**, and **Python**, with hands-on experience in building scalable full-stack applications using **React** and modern backend frameworks. Skilled in the complete **Software Development Life Cycle (SDLC)**, from requirement analysis to testing and deployment. Passionate about writing clean, efficient code and solving complex business problems through innovative software solutions.

Technical Skills

Languages	Java, C++, Python, JavaScript (ES6+) , SQL, Bash Scripting
Web Technologies	React.js , HTML5, CSS3, RESTful APIs, Node.js Concepts, JSON, XML
Databases	MySQL, MongoDB , Database Design, Query Optimization
Tools & Platforms	Git/GitHub, VS Code, Docker, Jenkins, Linux (Ubuntu), AWS Basic Services
Core Competencies	Object-Oriented Programming (OOP), System Design, Problem Solving, Agile/Scrum

Technical Experience

- 07/2025–Present **Software Developer Intern, DevOps Quest, Gamified Web Platform**
- **Full Stack Development:** Designed and implemented a gamified learning platform using **React** for the frontend and **Node.js** for backend logic, serving 500+ users.
 - **System Architecture:** Developed a modular **microservices architecture** to decouple game logic from user management, improving code maintainability and scalability.
 - **Database Optimization:** Engineered efficient **MongoDB** schemas and queries to handle real-time user progress tracking and leaderboard updates.
 - **Feature Implementation:** Collaborated with the product team to translate requirements into technical specifications, delivering features like interactive simulations and progress dashboards.
- 07/2024–12/2024 **Software Developer, FOODISTA, Campus Ordering System**
- **End-to-End Solution:** Built a comprehensive digital ordering solution, handling the full stack from the user interface to database interactions using **JavaScript** and **SQL**.
 - **Business Logic:** Implemented complex algorithms for "queue management" and "order prioritization," reducing average user wait times by 15 minutes.
 - **API Integration:** Developed and integrated **RESTful APIs** to facilitate seamless communication between the client application and the inventory management system.
 - **Performance Tuning:** Optimized frontend rendering and backend response times, ensuring a smooth user experience for 1,000+ daily active users on campus.

Education

- 2022–2026 **B.E. Computer Science, Chandigarh University, Punjab**
CGPA: 7.65
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (Java/C++), DBMS, Operating Systems.
- 2022 **Intermediate (Class XII), KV AFS High Grounds, Chandigarh, 82%**

Academic Research & Projects

- 01/2023–03/2023 **Research Analyst, Software Security Analysis**
- **Security Best Practices:** Analyzed software vulnerabilities in distributed systems, researching coding standards to prevent common security threats (OWASP Top 10).
 - **Technical Writing:** Documented findings on **AI-driven threat detection**, bridging the gap between theoretical security concepts and practical software implementation.

Certifications & Interests

- Certifications Oracle Cloud Infrastructure Generative AI Professional
- Interests Competitive Coding, Open Source Contribution, Building Scalable Systems, AI Integrations