

# 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	<b>Java, C++, Python, JavaScript (ES6+), SQL, Bash Scripting</b>
Web Technologies	<b>React.js, HTML5, CSS3, RESTful APIs, Node.js Concepts, JSON, XML</b>
Databases	<b>MySQL, MongoDB, Database Design, Query Optimization</b>
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	<b>Software Developer Intern, DevOps Quest, Gamified Web Platform</b> <ul style="list-style-type: none"><li><b>Full Stack Development:</b> Designed and implemented a gamified learning platform using <b>React</b> for the frontend and <b>Node.js</b> for backend logic, serving 500+ users.</li><li><b>System Architecture:</b> Developed a modular <b>microservices architecture</b> to decouple game logic from user management, improving code maintainability and scalability.</li><li><b>Database Optimization:</b> Engineered efficient <b>MongoDB</b> schemas and queries to handle real-time user progress tracking and leaderboard updates.</li><li><b>Feature Implementation:</b> Collaborated with the product team to translate requirements into technical specifications, delivering features like interactive simulations and progress dashboards.</li></ul>
07/2024–12/2024	<b>Software Developer, FOODISTA, Campus Ordering System</b> <ul style="list-style-type: none"><li><b>End-to-End Solution:</b> Built a comprehensive digital ordering solution, handling the full stack from the user interface to database interactions using <b>JavaScript</b> and <b>SQL</b>.</li><li><b>Business Logic:</b> Implemented complex algorithms for "queue management" and "order prioritization," reducing average user wait times by 15 minutes.</li><li><b>API Integration:</b> Developed and integrated <b>RESTful APIs</b> to facilitate seamless communication between the client application and the inventory management system.</li><li><b>Performance Tuning:</b> Optimized frontend rendering and backend response times, ensuring a smooth user experience for 1,000+ daily active users on campus.</li></ul>

### Education

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

### Academic Research & Projects

01/2023–03/2023	<b>Research Analyst, Software Security Analysis</b> <ul style="list-style-type: none"><li><b>Security Best Practices:</b> Analyzed software vulnerabilities in distributed systems, researching coding standards to prevent common security threats (OWASP Top 10).</li><li><b>Technical Writing:</b> Documented findings on <b>AI-driven threat detection</b>, bridging the gap between theoretical security concepts and practical software implementation.</li></ul>
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### Certifications & Interests

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