SUBHASH KUMAR

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EDUCATION

Year	Degree	Institute / Board	CGPA / Marks
2025	Degree in Computer Science & Engineering	Roorkee College of Engineering, Roorkee	7.25 / 10
2022	Intermediate (BSEB)	Dr. RB Ray Degree College, Hajipur	66.66 %
2017	CBSE (CISCE)	Jawahar Navodaya Vidyalaya, Samastipur	10 / 10

PROJECTS

Mail Sending Project
- Built a Spring Boot email module using JavaMailSender to send automated transactional & notification emails reliably
- Configured & managed secure SMTP settings with TLS/SSL encryption to ensure reliable, timely email delivery service
- Created dynamic email content with backend HTML templates & handled email attachments for rich formatted emails

Journal Management System
- Built a secure digital journal backend using Spring Boot microservices and MongoDB Atlas with RESTful API support
- Integrated Spring Security with JWT authentication to protect user data and enforce role - based access control policies
- Implemented Apache Kafka for async processing of journal events and user notifications to improve system scalability
- Configured JavaMailSender for email notification actions &deployed the app on Heroku for cloud access & live testing

Online Shopping Platform
- Built full-stack shopping platform using Spring Boot backend, React frontend, MySQL, Hibernate, and RESTful APIs
- Implemented secure auth with Spring Security and JWT, added role-based access, email verification, and token expiry
- Integrated AWS S3 to store / serve product images, enabling scalable media access directly from frontend with security
- Developed RESTful APIs for products, cart, users, and orders with input validation, logging, and exception handling
- Used layered architecture (Controller, Service, Repository) to build scalable, modular, maintainable, and testable code
- Integrated secure payment gateway for online transactions with order confirmation, invoicing, and tracking system log

COURSEWORK INFORMATION

Algorithms 1 | Software Engineering | Programming and Data Structures | Formal Language and Automata Theory |
Algorithms 2 | Compilers | Operating Systems | Computer Networks | Artificial Intelligence | Object Oriented System |

SKILLS AND EXPERTISE

Languages: C, JavaScript, Python, Java
Software / Tools: VS Code, MS Excel, Intellij Idea, Postman
Soft Skills: Teamwork, Problem Solving, Communication, Self Learning
Area of Interest: Competitive Programming, Web Development

Libraries / Framework: ReactJs, Spring Boot, Hibernate
Others: Git, HTML, CSS, MySQL, MongoDB

POSITIONS OF RESPONSIBILITY

Captain | Cricket Tournament, RCE Roorkee
- Headed a 16-member student team to secure **1st** place in the General Championship 2022, competing with 8 hall teams
- Mentored a squad of 25+ members for year -round activities including weekly training, practice, and warm-up matches
- Efficiently managed & utilized the budget allocated to the Hall Cricket Team for training, fitness, and equipment needs

ACHIEVEMENTS AND CERTIFICATIONS

Relational Database Management System | IBM
- Gained expertise in database design, normalization & complex SQL querying with hands-on experience using IBM DB2
- Understood relational concepts such as transaction control, indexing methods & the fundamentals of relational algebra

Data Structures and Algorithms | IBM
- Mastered data structures including arrays, stacks, queues, linked lists, trees, and graphs with practical implementation
- Implemented algorithms for search, sort, and graph traversal while enhancing problem-solving and complexity analysis