

AYUSH RAJ

(Full Stack Java Developer)



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EDUCATION			
Year	Degree/Exam	Institute	CGPA/Marks
2026	M.TECH Dual Degree 5Y	Indian Institute of Technology, Kharagpur	7.31 / 10
2020	Class XII, BSEB	D.C Inter College, S.B.Pur	88.2%
2018	Class X, BSEB	+2 High School, S.B.Pur	80.4%

SKILLS AND EXPERTISE

- Programming Languages: Java | SQL | C | HTML | CSS | JavaScript (Basic) | Python | C++ (Basic)
- Software/Tools: Java SE | Java EE | JDBC | MySQL | Maven | Microservices | Eclipse | VS Code | GitHub
- Libraries/Frameworks: Hibernate | Spring | Angular | Java Swing | Java AWT | Java Standard Library

COURSEWORK INFORMATION

Programming and Data Structures | Object Oriented Programming | File Organization and Database Management Systems Probability and Statistics | Economics | Basic Electronics | Electrical Technology | Strategic Planning

PROJECTS

ATM Interfaces and Operations | Java and SQL | Self Project

[Jun '24]

- Developed intuitive UIs using Java Swing framework, incorporating interactive buttons, text fields, and labels
- Implemented secure PIN-based authentication, ensuring user accounts are protected against unauthorized access
- Managed and secured user data, transactions, and accounts using robust SQL database, including MySQL

Search and Download Images (website) | API and JavaScript | Self Project

[Apr '23]

- Integrated the Pexels API for image search and retrieval, managing authentication and data parsing
- Enabled keyword-based image search, initiated by pressing the "Enter" key for enhanced user experience
- Implemented lightbox feature for image preview and download, showcasing the image and photographer's name

Snake Game Web Application | JavaScript | Self Project

[Dec '22]

- Established accurate collision detection with walls and the snake itself ensuring proper game termination
- Introduced random food placement on game board, significantly enriching gameplay diversity and excitement
- Enabled snake control via arrow keys, implementing constraints to prevent immediate reverse direction
- Implemented a real-time score display, instantly updating upon food collection, enhancing gameplay experience

My Portfolio (Website) | HTML and CSS | Self Project

[Jun '22]

- Developed a responsive hamburger menu for intuitive navigation on mobile devices, enhance user accessibility
- Implemented JavaScript functions for menu toggling and smooth scrolling to the top, improve user experience
- Presented projects with detailed descriptions and live demo links that open in new tabs for convenient access

AWARDS AND ACHIEVEMENTS

- Solved 650+ Data Structures and Algorithm problems on platforms like LeetCode, CodeChef, GFG and Codeforces
- Achieved distinction in the Pre-Regional Mathematics Olympiad 2019, ranking among the top 1920 nationally
- Received the prestigious NTSE Scholarship from NCERT, Government of India, recognizing academic excellence
- Secured second place in state-level Election Knowledge Competition 2017, by the Election Commission of India
- Won second place in Ore-acle Quest at MINARE 2024, hosted by NIT Rourkela's Mining Engineering Society

CERTIFICATIONS

Data Structures and Algorithms with Java | Alpha | Apna College

[May '23]

- Completed the Alpha (DSA with Java) course at Apna College, proficient in data structures and algorithms
- Completed a 16-week intensive DSA program, mastering topics such as dp, linked lists, binary trees, and graphs

POSITIONS OF RESPONSIBILITY

Coordinator Students' Welfare | Radhakrishnan Hall of Residence

[Aug '23 - Apr '24]

- Served on the Institute Welfare Subcommittee, advocating for 600+ boarders at Radhakrishnan Hall of Residence
- Led a team of 39 wing representatives to enhance mental illness surveillance and awareness at a micro level

EXTRA CURRICULAR ACTIVITIES

- Proudly represented my school in prestigious quiz and essay competitions at district, state, and national levels
- Developed mathematics problem sets for primary school students as a volunteer with the National Service Scheme