

# Amulya Varshney

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LeetCode: **Knight(Rating:1900+)** Codeforces: **Expert(Rating:1600+)** HackerRank: **6 Star** Codechef: **4 Star**

## EDUCATION

- **International Institute of Information Technology (IIIT) - Naya Raipur, India** 2019 - 2023
- Bachelor of Technology (B.Tech) - Computer Science and Engineering (CSE) *CGPA: 9.23/10.00*
- **Courses:** Operating System, Object-Oriented Programming, Data Structures and Algorithms, Database Management System

## SKILLS

- **Programming Languages:** Python, C, C++, C#, JavaScript, TypeScript, Java
- **Technologies:** MS SQL, MongoDB, .NET, React, Next.js, Node.js, RabbitMQ, gRPC, Microsoft Azure, Docker, Bash Script
- **Technical Interest:** Data Structures and Algorithms, Full Stack Development, Object Oriented Design, Design Patterns

## EXPERIENCE

- **Software Engineer** Jul 2023 - Present  
Carl Zeiss AG - *Zeiss Group*
  - Created REST APIs in C# & .NET for internal use at Zeiss, implementing role-based authentication to ensure security.
  - Implemented a notification service using gRPC for real-time alerts to devices on virus threats, enhancing system security and user awareness by facilitating communication between multiple micro-services.
  - Implemented new APIs and crucial features in the Settings module of PRIUS using design patterns, ensuring the system's scalability and ease of future updates.
- **Software Engineer Intern** Jan 2023 - Jun 2023  
Carl Zeiss AG - *Zeiss Group*
  - Developed a File Uploader Service in .NET to upload files from the devices to a blob storage in IoT Hub during a predefined time interval for analyzing log and settings data to get insights about user preferences.
  - Improved dataset granularity, search filters, and data grouping on the CGI overview page of Frame Digitization Platform using MongoDB Aggregation, optimizing resource management and allocation to enhance system efficiency.
  - Enhanced features and resolved critical and high-priority bugs in Chart Viewer, a visual acuity testing desktop app.
- **Full Stack Developer Intern** Mar 2022 - Dec 2022  
Hackerearth
  - Earned Kudos Award with Certificate of Appreciation for outstanding performance during the quarter April to June 2022.
  - Developed a customizable code editor using Python and Django to facilitate Skill-Based Assessments, enabling recruiters and hiring managers to efficiently screen top developers across 900+ skills, improving the recruitment process.
- **Research and Development Intern** Aug 2021 - Feb 2022  
Samsung R&D Institute (SRI-B), India *Awarded Certificate of Excellence for my contribution in the project*
  - Implemented a custom YOLO v3 model by fine-tuning the classifier to detect inadvertent objects during IMS video calls, achieving a 94% accuracy rate, during IMS video calls.
  - Developed a mobile application using Java for Samsung camera devices to enable automatic screen lock controls whenever a kid is detected in front of the device during a video call, improving user safety and device security.

## PROJECTS

- **Resource Management System** (*TypeScript, Node.js, Tailwind CSS, MS SQL, Azure*) Aug 2023 - Apr 2024  
Developed a **full-stack, responsive, and interactive web application using React and Next.js, with RESTful APIs implemented in C and .NET Core, and used an SQL database** for tracking project progress and resource management. Implemented in-depth analysis features and successfully hosted on Azure App Service.
- **Onchain Doc Editor** (*Solidity, MongoDB, Node.js, Ether.js, React*) Jan 2022 - Jun 2022  
Developed a **Distributed Editor to reduce text redundancy and optimize space usage** by implementing a system to commit group changes by storing local changes locally for dynamic files managed by multiple users.
- **C-Share** (*Python, Django, SQLite*) Jan 2021 - Jun 2021  
Developed a **content sharing application** based on the idea to post & share files securely using user login & authentication. Implemented a dashboard for users to track their activity on the app.

## HONORS AND ACHIEVEMENTS

- Secured **Global Rank 609 and India Rank 379** in Google Kickstart 2022 Round E among 20,000+ Participants.
- Secured **Global Rank 73 and India Rank under 10** in Codeforces contest among 15,000+ Participants.
- Achieved **First Rank in CSE Department** during the first year of graduation with the highest CGPA.
- **Runner Up in Web Dev Hackathon** at HBTU Kanpur Technical Fest out of 10,000+ participants - October 2018
- Fellowship of Science and Technology Council, Uttar Pradesh shortlisted out of 50,000+ participants - May 2017