# 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 Systems, Data Structures, Analysis Of Algorithms, Object-Oriented Programming, System Design, Databases*

## SKILLS

- **Programming Languages:**　Python, Go, Java, C++, C#, JavaScript, Typescript, Solidity, SQL
- **Backend Technologies:**　FastAPI, Django, ASP.NET, Node.js, Spring Boot, RabbitMQ, gRPC, twirp, PHP (Laravel)
- **Frontend Technologies:**　React, Next.js, GraphQL, jQuery, Tailwind CSS
- **Devops & Tools:**　Git, Docker, Kubernetes, Jira, Redis, Kafka, Redash, Querybook, Prometheus, Bash
- **Database & Platforms:**　MySQL, MS SQL, MongoDB, Linux, Web, Azure, AWS, OpenSearch
- **Technical Interest:**　Problem Solving, Full Stack Development, Object-Oriented Design, Design Patterns

## EXPERIENCE

- **Software Development Engineer**　　Aug 2024 – Present
  *Razorpay*　　*Bangalore, India*
  - Contributed to the development of Ray, an **AI-powered fintech concierge**, by integrating **backend APIs** and implementing **intent/prompt processing** using **Python & FastAPI**.
  - Developed payment tracking, settlement details, and payment link generation using **Go** and enabled seamless communication between components via **twirp-based microservices**.

- **Software Engineer**　　Jul 2023 – Jul 2024
  *Carl Zeiss AG - ZEISS*　　*Bangalore, India*
  - Developed REST APIs using **Java & Spring Boot**, with role-based authentication to enhance security for internal systems.
  - Built a **gRPC-based notification service** for real-time alerts on virus threats, improving system security and user awareness through seamless communication between multiple **microservices**.
  - Implemented new APIs and core features using **C# & ASP.NET** in the PRIUS Settings module using **design patterns**, ensuring scalability and ease of future updates.

- **Software Engineer Intern**　　Jan 2023 – Jun 2023
  *Carl Zeiss AG - ZEISS*　　*Bangalore, India*
  - Developed a File Uploader Service using **C# & ASP.NET**, automating file uploads to **Azure IoT Hub blob storage** at scheduled intervals for analyzing logs and settings data, providing valuable insights into user preferences.
  - Enhanced the Frame Digitization Platform's CGI overview page by improving **dataset granularity, search filters, and data grouping** using **MongoDB Aggregation**, optimizing resource management and boosting system efficiency.
  - Developed and optimized frontend components using **React and Typescript** for seamless user interaction & responsiveness.

- **Full Stack Developer Intern**　　Mar 2022 – Dec 2022
  *HackerEarth*　　*Remote*
  - Developed a customisable code editor using **Python & Django** for skill-based assessments, enabling efficient recruitment.
  - Awarded **Kudos Award** with a **Certificate of Appreciation** for outstanding performance (Q2 2022). **Certificate Link**

- **Research and Development Intern**　　Aug 2021 - Feb 2022
  *Samsung R&D Institute (SRI-B)*　　*Remote*
  - 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.
  - Awarded **Certificate of Excellence** for my contribution & successful completion of virtual internship. **Certificate Link**

## PROJECTS

- **Resource Management System (Typescript, Next.js, Node.js, Tailwind CSS, MS SQL, Azure)**: Developed a **full-stack, responsive, and interactive web application** using **React and Next.js** for seamless user experience. Built **RESTful APIs** in **C# & ASP.NET Core** to manage project progress and resource allocation, backed by an **SQL database**. Implemented in-depth analytics features to provide actionable insights for project management. Deployed the application on **Azure App Service** for high availability and scalability.

- **Onchain Doc Editor (Solidity, MongoDB, Ether.js, React)**: Developed a **distributed document editor** that reduces text redundancy and optimize space usage by implementing a system to commit group changes. Enabled efficient collaboration by storing and managing local changes for dynamic files across multiple users, ensuring consistency and version control.

- **C-Share (Python, Django, SQLite)**: Developed a secure **content-sharing platform** with user login and authentication to ensure privacy and controlled access. Designed an interactive dashboard for users to monitor their activity, enhancing user engagement and visibility.

## 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 the department during the first year of graduation with the highest GPA of 9.64.
- **Runner Up in Web Dev Hackathon** at HBTU Kanpur Technical Fest out of 10,000+ participants in 2018.
- **Fellowship of Science and Technology Council, Uttar Pradesh** shortlisted out of 50,000+ participants in 2017.