

# APARNA RANA

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## Education

### University of Petroleum and Energy Studies

*Bachelor of Technology – Computer Science and engineering [8.97]*

**July. 2021 – Present**

*Dehradun, Uttarakhand*

### St. Fidelis College

*12<sup>th</sup> – 89.4%*

**[2020-21]**

*Lucknow, Uttar Pradesh*

### St. Fidelis College

*10<sup>th</sup> – 91.16%*

**[2018-19]**

*Lucknow, Uttar Pradesh*

## Internships

### Lagaland

*Summer intern*

**June-September 2024**

- Spearheaded the backend team in a 10-member group to build a MERN stack application, focusing on creating RESTful APIs, managing database schemas, and ensuring secure and efficient data flow.
- Conducted manual data extraction and validation, ensuring data integrity and accuracy to support project requirements and decision-making processes.

### Salesforce

*Administrator*

**Nov – Dec, 2023**

*Virtual internship*

- Completed a virtual internship program focused on Salesforce administration, gaining hands-on experience in configuring, customizing, and maintaining Salesforce instances
- Applied knowledge acquired from the Salesforce Supported Virtual Internship Program to perform various administrative tasks, ensuring the optimal functioning of Salesforce platform components.

### SAMARTH NGO

*Group lead*

**June – Aug, 2022**

*Lucknow, Uttar Pradesh*

- Delegated with the duty of Group leader, in charge of supervising my intern colleagues, delegating tasks to them and responsible for handling communication between the college and the students.
- Helped in the programs for upliftment of women in the rural areas as well as was responsible for maintaining records.

## Projects

### AWS Cloud-Based Web Application Development and Deployment /

- Designed, developed, and deployed a scalable and highly available student academy record management system on the AWS cloud platform, adhering to AWS Well-Architected Framework best practices. Leveraged core AWS services, including VPC, EC2, Elastic Load Balancing, Security Groups, Auto Scaling, RDS, and S3 to build a robust and resilient infrastructure.

### Book Wise /

- Developed a popularity based chatbot that recommends similar books to the user, using NLP, python and Flask

### MicroCart /

- Developed a scalable and modular e-commerce platform utilizing Node.js and microservices architecture. Implemented core microservices for product catalogue, order management, and user authentication.

## Technical Skills

**Languages:** C, Java

**Developer Tools:** VS Code, Git, Docker, Kubernetes, Jenkins

**Technologies:** MongoDB

**Soft Skills:** Leadership, creative writing, Collaborative skills, Communication, Adaptive, Flexibility

**Cloud Platforms:** AWS

## Achievements

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- **Student Council Member:** Demonstrated leadership and organizational skills by contributing to school initiatives.
- **Organizing Committee Member:** Successfully collaborated with peers to plan and execute Model United Nations.
- **Editorial Team Lead:** Developed strong communication and writing skills while managing a team of writers.
- **Participant, UPES Cloud Security Alliance Hackathon 8.0 (2024):** Gained practical experience in cloud security and problem-solving.

## Certifications

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- Certified AWS Solutions Architect-Associate
- AWS Academy Graduate - AWS Academy Cloud Architecting
- AWS Academy Graduate - AWS Academy Cloud Operations
- AWS Academy Graduate - AWS Academy Introduction to Cloud Semester 1
- Introduction to Cloud Computing - IBM
- Introduction to Web Development with HTML, CSS, JavaScript- IBM