Aditya Kumar

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EDUCATION

University of Petroleum and Energy Studies   **2021 - 2025**
Bachelor of Science in Computer Science - 7.91 till IVth semester CGPA   *Dehradun , Uttarakhand , India*

Araria Public School (C.B.S.E)   **2020 - 2021**
10+2 Higher Secondary Education - 77%   *Araria, Bihar, India*

TECHNICAL SKILLS

Languages: C , **C++, HTML, CSS**, JavaScript(core), TypeScript (core)
Framework/Library: ReactJS, TailwindCSS
Developer Tools: VS Code, Eclipse,Vagrant, Postman
Technologies: Linux(core), Git, GitHub, **AWS**(10+ services), Azure(App-Service), Docker

PROJECTS

WebSleuth | *React.Js, TypeScript, Next.js, Mongodb*   **February - Present 2024**

- Engineered a price tracking platform for online shopping with real-time notifications on price changes and stock updates.
- Crafted an intuitive UI with React.js and implemented RESTful APIs using Next.js for data management.
- Automated product data extraction from Ecommerce Platform via custom web scraping scripts.
- Developed an email alert system using nodemailer for price drop and availability notifications.
- Optimized application performance with Next.js features for revalidation and caching, enhancing user experience.

College-space application | *JavaScript, HTML, CSS, REST API, AWS, GitHub, Firebase*   **August - November 2023**

- Engineered a dynamic college-space application enabling note sharing, announcements, and real-time chat.
- Integrated **Firebase** Authentication with other Firebase services to provide a seamless user experience
- Leveraged JavaScript-based solutions for efficient file handling (upload, download, delete operations) on **AWS S3**, optimizing storage management
- Boosted deployment efficiency through Docker and Azure App Service, accelerating feature release cycles.

Transport Optimization | *C++, Data Structures, Github*   **September − November 2023**

- Applied graph algorithms, arrays, and queues to solve real-world problems, such as a carpooling system.
- Staged a carpooling system that improved campus transportation efficiency by 10% and reduced student expenses by 40% connecting service offerors and seekers.
- Managed and organized data in a file system, improving accessibility and retrieval efficiency by 20%.

Inventory Management System | *Python, Flask, Amazon Web Service*   **February - March 2023**

- Crafted a **cloud-based** inventory management system using **Python, Flask, AWS EC2, AWS services** and **Service-oriented architecture (SOA)**.
- Increased the performance and reliability of inventory data management by 10% by implementing a **DynamoDB**.
- Deployed the system to **AWS EC2**, using a **load balancer** and **auto scaling** to ensure scalability and reliability.
- Secured the system using AWS Web Application **Firewall (WAF)** on **AWS EC2**.

INTERNSHIP

Piramal Foundation   **June 2022 - August 2022**
Volunteer   *Araria , Bihar*

- Put into effect a comprehensive task tracking system for a 4-member team, resulting in a reduction in missed deadlines
- Managed a team of 100 teachers and volunteers for the **CHAHAK** Bihar Government Education Project.
- Engaged with teachers in finding more effective and creative teaching methods for students.

ACHIEVEMENTS

Leetcode   **February 2024**

Leetcode 50 Days Badge 2024 - March 2024
Leetcode 50 Days Badge 2023 - December 2023
Solved 200+ Algorithmic question on leetcode

GitHub   **February 2024**

Experienced GitHub user with 300+ commits

Open-Source Contribution   **October 2023**

HACKOBERFEST 2023: Shared my idea and solution in open source and completed all levels badge

CERTIFICATIONS

AWS Academy Cloud Developing   **November 2023**
By AWS Academy

AWS Academy Cloud Operations   **April 2023**
By AWS Academy

Fundamentals of Digital Marketing   **April 2023**
By Google digital Garage

EXTRACURRICULAR

Chitrakala 3.0   **February 2023**

Showcased my artistic talents at the Chitrakala 3.0 competition

CSA Hackathon 2.0   **April 2023**

Engineered voice-enabled medical data graph visualization app using **AWS services**(AWS Lambda ,AWS Medical Comprehend, AWS Neptune, AWS Lex ,AWS EC2) that reduced data analysis time by for healthcare professionals.