ADITYA KUMAR SINGH

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Education

Indian Institute of Technology, Hyderabad
B-Tech Mechanical Engineering   *July 2018 – April 2022*

Experience

Amazon   **Hyderabad**
Software Development Engineer   *June 2022 – Present*

- **Frontend & Backend Development:** Resolved software bugs, developed complex UI features, and introduced two new APIs in the backend using JAVA.
- **AWS:** Architected and optimized cloud infrastructure using AWS services like EC2, SQS, S3, and Lambda and also monitoring such as cloud-watch and alarms.
- **Automation Scripting:** Streamlined tasks and increased team efficiency by creating automation scripts, reducing deployment timelines from 2 weeks to 4 days.
- **Cross-Team Collaboration:** Coordinated inter-team efforts to align with objectives, ensuring the successful tracking and completion of 6+ projects.
- **Data loss Detection:** Engineered a monitoring system to actively alert at critical points where data loss can occur thus reducing such occurrences by more than 90%.

Tinkerer's Lab   **Hyderabad**
Technical In-charge   *December 2019 – April 2022*

- **Role:** Managed multiple tenants such as projects, events, team coordination, inventory, and stakeholder management with the leadership and academics in charge.
- **Management:** Streamlined event and project management through an online platform also tracking inventory and social handles for the lab.
- **Events:** Organized and led 15+ events annually like talks, outreach programs, orientations, and tech sessions on Arduino, Raspberry Pi, and 3D printers.

Grid Edgewrks Pvt&Ltd   **Hyderabad**
Internship   *May 2021 – July 2021*

- **Automation:** Automated data calculation/manipulation tasks by preparing and deploying Python scripts, reducing manual effort by 90% and saving the team 5+ hours per week.
- **App Development:** Proposed and implemented 7 new features, user stories, and bug fixes for the app's beta version, collaborating with teams to identify changes for product expansion.

Projects

Resource Certification: (Java)

Designed and implemented a new API to certify 4+ resource types based on access required, reducing build and runtime failures for users registering for new services.

Key Features: Java, Rest API, and AWS resources such as SQS, DDB, IAM, etc.

Instagram Automation: (Python)

Completely automated the creation and publishing of Instagram posts with the help of 5+ scripts and scheduled executions in Jenkins.

Key Features: Meta Graph APIs, Jenkins, Google APIs, auth, cron, logging, etc.

Miscellaneous:

Developed 10+ projects, including a Real-time sudoku solver, a chrome extension for crypto portfolio tracking, and automation scripts for IG and FB.

Key Features: Backtracking, OpenCV2, DOM manipulation, etc.

Technical Skills

Programming Languages: Java, Python, C++, SQL, Bash

Web Development: HTML, CSS, JavaScript, MERN (MongoDB, Express, React, Node.js), Redux, JWT

Cloud & DevOps: AWS (EC2, S3, SQS, Lambda), CI/CD (Jenkins), Docker, Kubernetes

Tools & Frameworks: REST APIs, GIT/GitHub, Linux/Shell

Concepts: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP)