# JARPULA AJAY NAYAK

## ACADEMIC PROFILE

| Degree/Certificate | Institution | Percentage/CGPA | Year |
|---|---|---|---|
| B-Tech | Electronic Engineering IIT (BHU), Varanasi | 8.13 | 2025 |
| TSBIE (XII) | Sri Chaitanya JR Kalasala | 97.00 | 2021 |
| TSBSE (X) | Sri Chaitanya High School, Kukatpally, | 92.15 | 2019 |

## SKILLS

- **Programming Skills**: C++, C, Python, SQL, Java.
- **Frameworks & Libraries**: Django, ReactJS, Bootstrap, ARCore.
- **Areas of Interest**: Data Structures & Algorithms, Competitive Programming, Web Development, Augmented Reality.

## INTERNSHIP/TRAINING

**Software Developer Internship, Investco Capital Ventures Pvt. Ltd**  May-July'24

- Integrated a third-party *API* to efficiently retrieve and securely store GST details of borrowers in the database.
- Automated referral emails using *SMTP* driving the acquisition of suppliers and buyers linked to first-level borrowers.
- Designed a reward system to manage voucher crediting and redemption using Django *Models* and *Signals*.
- Built an admin dashboard using *ReactJS*, for tracking the onboarding progress of referred users.
- Exposure: Python, Django, ReactJS, API.

## PROJECTS

**IdeaPad**

- Developed a full-stack application for managing ideas using Django, Django REST Framework, and React.
- Implemented features for creating, updating, and deleting ideas with a focus on user-friendly design.
- Ensured seamless frontend-backend communication by resolving CORS issues and optimizing API integration.
- **Exposure**: Django, React JS, API

**Weather App – Android**

- Developed a weather application using Java and OpenWeatherMap API to display real-time weather data like temperature, humidity, pressure, and conditions.
- Integrated GPS-based location tracking to fetch weather details dynamically using latitude and longitude.
- Parsed JSON responses and updated the UI with clean and responsive layouts.
- Exposure: Java, Android Studio, RESTful API, GPS & Location Services.

**Autonomous Path Mapping Robot**

- Simulated an autonomous robot on Pybullet that used live video feed from an overhead camera to apply Image Processing to navigate through an arena.
- Implemented Dijkstra algorithm to find the optimal path abiding by the given rules.
- **Exposure** : OpenCV, Aruco, Pybullet, Python.

## POSITION OF RESPONSIBILITY

- **Marketing Executive, Spardha'22**:Organized fundraisers, secured sponsorships, and established partnerships with companies.
- **Marketing Coordinator, Udyam'23**:Led outreach efforts to tech companies for sponsorships via email and LinkedIn.

## HONOURS AND ACHIEVEMENTS

- **Specialist** at Codeforces with a highest rating of 1510 (ID: Ajay_2022).
- Achieved **Global Rank** 595 and 435 in CodeChef Starters 147 and Starters 141 respectively.
- Secured **Global Rank** 1978 in Codeforces Round 940.
- Attained **Global Rank** 76 in Algo_Arena_01 at IIT BHU.
- Solved over **500 Problems** on LeetCode, Geeks For Geeks, and other platforms.

## EXTRA-CURRICULAR ACTIVITIES

- **Devbits**: Participated in a competitive programming and web development event at Udyam'23, IIT BHU.
- **Mosaic**: Competed in a machine learning-based event during Udyam'23, IIT BHU.
- **Digisim**: Engaged in a digital electronics-based event at Udyam'23, IIT BHU.

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