

# AJAY TIWARI

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## Education

Indian Institute of Information Technology, Kalyani  
B. Tech. in Computer Science Engineering

2022 - 2026  
CGPA: 8.93

Sri Ram Education Centre, Kanpur  
Intermediate

2019 - 2021  
94.8%

## Projects

### AmazoScape Pro

[GitHub: AmazoScapePro](#)

- **Tech Stack: Django, Redis, Celery, Python, Bright Data, Jupyter Notebook, Selenium**
- Developed a robust web scraping project for efficiently extracting detailed information from Amazon product pages.
- Implemented Selenium to handle dynamic content extraction and effectively bypass captchas for improved data accuracy.
- Integrated Bright Data's rotating proxies to significantly enhance scraping efficiency and avoid IP blocking.
- Utilized Jupyter Notebook for seamless interactive data analysis, enabling insightful visualization of scraped data.
- Managed data storage with Django ORM and SQLite, ensuring streamlined and efficient handling of extracted information.

### DNS Server Implementation in Go

[GitHub: DNS Server](#)

- **Tech Stack: Go (Golang), Networking (UDP), DNS Protocol**
- Implemented DNS query parsing and response generation, including handling various DNS record types.
- Supported both direct resolution using a specified upstream DNS resolver and default IP resolution.
- Implemented DNS message compression for efficient packet transmission.
- Handled DNS headers, flags, and question sections, ensuring correct interpretation and response to DNS queries.
- Built using Go's net package for handling UDP connections, with robust error handling and logging.

### Recipe Book Application

[GitHub: CookBook](#)

- **Tech Stack: Django, Python, Sqlite, HTML, Bootstrap CSS**
- Developed a web application to manage recipes, including adding, searching, updating, and deleting recipes.
- Added advanced authentication for login and registering using the in-built user model provided by django.
- Implemented Django views, URLs, and models to handle backend logic and data storage.
- Utilized SQLite for database management and Bootstrap CSS for a responsive frontend design.

## Coding Profiles

LeetCode: [Ajeyy \(top 17%\)](#)

CodeChef: [Ajaitiwarii \(1598 rating\)](#)

Codeforces: [Awake\\_Ajey](#)

## Achievements

- **Secured a global rank of 334** in CodeChef contest **STARTERS118 (Div 4)**.
- **Attended 35+ contests** on CodeChef, LeetCode, and CodeStudio and Codeforces.
- Participated in two offline Hackathons (**StatusCode 0** and **StatusCode 1**) and an online hackathon(**REBASE**).

## Key Courses Taken:

**Computer Science:** Python, C, C++, Data Structures, Algorithms, Operating Systems

**Mathematics:** Linear Algebra, Probability and Statistics, Discrete Mathematics

## Skills

**Languages:** C++, Python, Go, Java, C, Dart, JavaScript

**Technologies:** VS Code, IntelliJ IDEA, Android Studio, Git

**Frameworks:** BootStrap CSS, Tailwind CSS, React, Django, Redis, Celery, Flutter, Flask

**Databases:** MySQL, MongoDB

**Operating Systems:** Windows, Linux(Ubuntu)

## Languages

English (Full Proficiency), Hindi (Native)