


SCHOLASTIC ACHIEVEMENTS


- Awarded **3 AP** (Advanced Performer) and **28 AA** grades for exceptional performance. (2021)
- Received **Institute Academic Prize** (top **20** of CSE Batch) for stellar academic performance. (2021)
- Secured **All India Rank 6** in **JEE Advanced** amongst 1,50,000 candidates. (2020)
- Secured **All India Rank 111** in **JEE Main** (B.Tech) amongst 9,20,000 candidates. (2020)
- Received the **Reliance Foundation Scholarship** alongside **80** other candidates. (2020)
- Qualified for **Indian National Physics Olympiad** alongside **457** other students. (2019)
- Selected for **Kishore Vaigyanik Protsahan Yojana Exam**, ranking **73rd** in the aptitude test. (2019)

WORK EXPERIENCE

Quadeye Securities LLP | *Internship*

May 2023 - July 2023


 Quant Strategist


 C++, R, RCpp, bash

- Implemented and thoroughly optimized a historical trade simulator in **R**, **C++** and **RCpp** to test arbitrage strategies.
- Tested and analyzed various strategies, varying order types and equity-futures arbitrage choices.
- Wrote dozens of bash and R scripts to manipulate and analyze input and output data files spanning tens of gigabytes.

WinZO Games | *Internship* | *Mr Abhishek Goyal, Mr Vasu Vardhan*

May 2022 - July 2022

 Backend Developer


 React, Cassandra, Jest, PostgreSQL

- Designed and implemented unit testing suite from scratch for one of the key services using **Jest**.
- Implemented several endpoints, notably, an efficient one for player skill update using prefix sums in **Apache Cassandra**.
- Undertook research tasks: automated syntax documentation of API endpoints and extraction of debug logs from packages.

Bodhitree | *RnD* | *Prof. Kamewari Chebrolu*

January 2022 - April 2022

 App Developer

 React Native


- Designed and implemented core app navigation structure with nested stack navigators and drawers.
- Implemented custom components to engage users with content such as a video player and question widgets.
- Produced a final release build covering all of the course content and functionality permissible with the API.

PROJECTS

KnowYourTube | *Personal Project*

September 2021

→ WebApp to analyze one's Youtube Watch History


 Django, Angular, Numpy

- Utilized numpy for efficient filtering and organization of watch history data obtained from Google Takeout.
- Set up a **Django** server to accept takeouts and provide insights on frequency trends and top-viewed videos.
- Designed a user-friendly **Angular** website to analyze results with customized tags and filters.

Jungle Chats | *Personal Project*

September 2021

→ WebApp to replay exported WhatsApp chats


 Angular, Django

- Implemented an **Angular** app to fetch chat histories on the backend and display them.
- Rendered an appealing real time simulation of the chats.
- Implemented a **view tracker app** using Django and Angular, tracking location and frequency of visits.

GitHub Profiles | *Lab Assignment for CS251* | *Prof. Amitabha Sanyal*

August - September 2021

→ Website to summarize user profiles on GitHub

 Django, Bootstrap

- Organized a database for users and their repositories on GitHub.
- Utilized the **GitHub Data API** to collect data about users' repositories and followers.
- Designed a smooth front-end website served by a Django server, summarizing collected information.

TECHNICAL SKILLS

Languages: C, C++, Python, SQL, Typescript, HTML/CSS, Java, Dart, R/RCpp, Assembly, Bash and other Unix tools.

Frameworks/Libraries: Angular, React, Electron, Socket.io, Express, React Native, Android Development, Flutter, Django, Numpy, PyTorch, Selenium, OpenCV, NLTK.

Applications: DataGrip, pgAdmin, VS Code, Android Studio, Chrome Dev Tools.

Others: GitHub, AWS Amplify, GDB, CMake, Regex, Latex, AutoHotKey Scripting.

RELEVANT COURSES

- **Computer Science:** Artificial Intelligence and Machine Learning, Speech and Natural Language Processing, Computer Vision, Data Structures and Algorithms, Design and Analysis of Algorithms, Discrete Structures, Game Theory and Algorithmic Mechanism Design*, Program Analysis*, Automata Theory, Implementation of Programming Languages, Abstractions and Paradigms in Programming, Logic for Computer Science, Digital Logic Design and Computer Architecture, Computer Networks, Operating Systems, Database and Information Systems, Topics in Virtualization and Cloud Computing, Foundations of Network Security and Cryptography*.

- **Mathematics:** Linear Algebra, Data Analysis and Interpretation, Calculus, Introduction to Numerical Analysis, Probability-I*.

* Ongoing