

🏆 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

Websites for ISI, Delhi | 🌐 | 🏠 | *Freelance Assignment*

May 2023 - July 2023

👤 Frontend Developer

📦 Angular

- Implemented two modular and responsive websites for Indian Statistical Institute, Delhi with **Angular**.
- Abstracted design code from the content to minimize the effort necessary for updating the site.
- Led a watchful and thoroughly function deployment of the sites on their server, clearing multiple hurdles.

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 several different 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 time-efficient endpoints 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; with their solutions shared via **Confluence** and a privately published package.
- Carried out various routine activities such as forwarding one service's endpoints to another, connecting databases to back-office application and migrating services from previous tech-stack.

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 permissible with the API's status quo.
- Implemented consistent styles across the app for dark and light modes.

💡 PROJECTS

Educare | 🌐 | 🏠 | *Course Project for CS251* | Prof. Amitabha Sanyal

Sept - Nov 2021

→ Modular website for course instruction (a Learning Management System)

- Engineered a website for course management, with a CRUD API, email notifications, and code autograding.
- Designed a well-organized **CRUD API** and optimal database plans on a **Django** server.
- Led frontend development with **Angular**, implementing features like forums and assignment submissions.

CoReader | 🌐 | 🏠 | *Personal Project*

Jan 2022, June 2022, Spring 2023

→ Glossary and note-making **flutter** app for attentive readers.

- Integrated **Google Sign-In** in the app, as well as other APIs to get book covers, definitions and ratings.
- Implemented an **Express** app for remote back up of user data, with **PostgreSQL**, and group chat features.
- Prepared the app for future work, with a solid code base and a successful launch on the Play Store.

🔗 TECHNICAL SKILLS

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

Frameworks or 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.