

SCHOLASTIC ACHIEVEMENTS

- 🏆 Awarded **3 AP** (Advanced Performer) and **16 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

WinZO Games | 📄 | 🌐 | 👁 | 📱 | *Internship* | *Mr Abhishek Goyal, Mr Vasu Vardhan* May 2022 - July 2022
→ Backend Developer

- 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
→ React native application for a Learning Management System

- 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.

FaceSafe | 📄 | 🌐 | 📄 | *aws* | *Internship* | *Mr. Javed Sheikh at Alorb Tech* December 2021 - January 2022
→ Digital project management and hybrid work model SaaS application

- Migrated back-end services to a serverless architecture using AWS Amplify and Lambda.
- Migrated front-end codebase to modularized app in ReactJS.
- Implemented the feature to use the face recognition API, Amazon Rekognition.

PROJECTS

Educare | 📄 | 🌐 | 📄 | *django* | 📄 | 📄 | *Course Project for CS251* | *Prof. Amitabha Sanyal* Sept - Nov 2021
→ Modular website for course instruction (a Learning Management System)

- Assembled a **full-stack website** for course management in institutes for higher education
- Administered a well-organized **CRUD API** in **Python with Django**
- Helped build a smooth front-end application in **Angular**
- Organized appreciable database plans to optimize storage requirements

CoReader | 📄 | 🌐 | 📄 | *django* | *Personal Project* Jan 2022, June 2022, Spring 2023
→ Glossary and note-making **flutter** app for attentive readers.

- Integrated **Google OAuth2.0** 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.
- Published the app on Play Store. (TODO make this point better?)

SimpleGraph | 📄 | 🌐 | 📄 | *JS* | *Course Project for CS293* | *Prof. Bhaskaran Raman* Oct - Dec 2021
→ C++ library for working with graph data.

- Implemented several practical functions to parse and modify graph data.
- Designed an efficient program to render the graphs dynamically.
- Established communication between the two programs using sockets.

CycOOPS: Artist |  | *Personal Project*




April 2022 - May 2022

- Improved HTML5-canvas-inspired Graphics library
- Designed and implemented a deep core class hierarchy for shapes and sprites.
- Made use of **threads** to permit sequential animation instead of iterative.
- Integrated **GTK** event callbacks to permit animations responsive to clicks and key presses.




KnowYourTube |  |  |  | *Personal Project*

September 2021

- WebApp to analyze one's Youtube Watch History
- Formulated several functions in **Python using Numpy** for filtering and organizing Youtube Watch History data collected using Google Takeout
- Set up a server (in **Python using Django**) for collecting files from clients and returning insights like view frequency over time and most watched videos among others
- Created a user-friendly site in **Angular** to allow clients to study the results with custom tags and filters
- Deployed both the Angular and Django applications on **Heroku.com**

GitHub Profiles |  |  |  | *Lab Assignment for CS251 | Prof. Amitabha Sanyal* Aug - Sept 2021

- Website to summarize user profiles on GitHub
- 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 standard front end in plain HTML and **Bootstrap**
- Deployed the Django server on **Heroku.com**

Jungle Chats |  |  |  | *Personal Project*

September 2021

- WebApp to replay chats from exported files (primarily from WhatsApp chats)
- Implemented an **Angular** app to collect (from a server) and process chat exports
- Rendered an appealing real time simulation of the chats
- Implemented a **view tracker app** using Django and Angular

TECHNICAL SKILLS

Languages: C, C++, Python, Typescript, 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

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

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

RELEVANT COURSES

- **Computer Science:** 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*, Artificial Intelligence and Machine Learning, Speech and Natural Language Processing, Computer Vision.
- **Mathematics:** Linear Algebra, Data Analysis and Interpretation, Calculus, Introduction to Numerical Analysis, Probability - I*
- **Others:** Accounting and Finance, Marketing Management, Project Management, Psychology.

* Ongoing

EXTRACURRICULARS

- Development
 - Collaborated on projects such as InstiApp, a No-Dues portal and Digipad used across the institute.
 - Website developer for the winning team in the Inter IIT Tech Meet (March 2022)
 - Among the top 10 finalists for TSEC's 2023 Hackathon for app development. (February 2018)
- Writing and Language
 - Completed Level 1 Improv with Neville Bharucha and a workshop at The Habitat. (Spring 2023)
 - Secured 3rd Prize in IIT Bombay's creative writing competition. (Feb 2022)
 - Completed 3 **Creative Writing** courses from **Wesleyan University** on Coursera (July 2021)
 - Ranked **2nd** in Glendale Academy International's inter-school Competition (for poetry) (2017)
 - Completed the month-long Rozmer Writing Challenge. (June 2023)
- Volunteered with **NSS** to deliver lectures for high school students (December 2020 - July 2021)
- Secured **100%** and **97%** in the **DELTA A2** and **A1** papers (2022, 2018)