

# HITEN DALMIA

📍 Delhi, India

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in hiten-dalmia

🔗 confumbit

Graphic Design Portfolio 📄

## PROJECTS

### Tracing Close Curves with Epicycles

Research Paper 📄

- In this paper me and my 2 co-authors introduce the fundamental concepts of Fourier series and transforms (continuous and discrete), delving into their mathematical formulations, properties and applications.
- We also include a python program that performs the discrete Fourier transform to animate tracing of curves.

### Behavioural and Statistical Experiment

Randomness Challenge 📄

- Test the ability of users to be random by asking them to click 6 identical buttons in a random fashion.
- Uses different statistical methods to analyse the data collected, uses a REST API to store data in an Object Relational Database.
- Made using ExpressJS, ReactJS, Heroku and MongoDB.

### MERN Stack E-commerce Website

Cz Creation Online Shop 📄

- A fully fledged e-commerce website for a small business taking their products online.
- It has user authentication using JWT tokens, CRUD operations like the ability to add items to cart, place orders, forgot password etc. implemented using a REST API.
- Made using MERN stack, hosted on Heroku.

### Automatic Attendance System using Python and Tesseract-OCR

Breeze 📄

- Enables a teacher conducting a class to take attendance effortlessly in Google Meet using the chat.
- Made using Python and Tesseract-OCR.

## EXTRA-CURRICULAR ACTIVITY

- Currently part of the English Debating Society, Kirori Mal College.
- Held the position of Content Co-head in Tensors, The Mathematics Society, Kirori Mal College.
- Served as the Joint Secretary in Parivartan, The Gender Forum, Kirori Mal College.
- Was as a Part of the IMPACT Project, a non-profit consulting group, as a member of its Professional Development department.
- Led the state government initiated Energy Conservation Club in Grade 10 to recognition and merit by the Telangana state government.

## LANGUAGES

English  
Hindi  
Telugu



## EXPERIENCE

### Software Development Intern

Tagglabs Experimental Pvt. Ltd., Gurgaon

📅 Nov 2023 - May 2024

- Developed a package to implement feature matching with SIFT on Flutter to place persistent markers in real space, employed native C APIs and Open CV libraries.

### Freelance Full Stack Developer

Independent & Fractal

📅 Mar 2023 - Present

- Working as a freelance full stack web developer, on **Upwork** 📄 and elsewhere.
- Working as a founding member in the software development and graphic designing freelance organisation, **Fractal** 📄.

### Web Development Intern

Dualite

📅 Nov 2022

- Worked on creating interactive animations and interfaces using Javascript.

## EDUCATION

B. Sc. (Hons.) Mathematics

Kirori Mal College, University of Delhi

📅 Nov 2022 – Present 📍 Delhi

Minoring in Economics.

Higher Secondary School Certificate

DDMS P. Obul Reddy Public School

📅 May 2020 – Apr 2022 📍 Hyderabad

## ACHIEVEMENTS

- 2023 **3rd Prize**, Math Me If You Can (Mathematics Quiz), St. Stephen's College
- 2020 **High Commendation**, ALAGS E-MUN (5th Edition), International Press
- 2019 **1st Prize**, ISA Chemistry Scientific Concept Demonstration

## SKILLS

Python  
ReactJS

MongoDB

R

Adobe Photoshop

Microsoft Office

TypeScript  
Flutter

SQL

LaTeX

Linux

TallyPrime ERP