

## Dhruman Gupta

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<https://berlm.me>

### Educational Information

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#### Pathways School, Noida

##### IB Diploma

2023

- **Honors:** 43/45; 7 in all HLs; Outstanding Leadership Award; Technology Proficiency Award
- **Subjects:** HLs: Math AA, Computer Science, Economics, Physics; SL: English Lang & Lit, Hindi B
- **Extended Essay:** *Investigating the Effectiveness of Neural Networks to Detect a DDoS Attack*

##### Standardized Tests

2022

- **AP:** 5 in Calculus BC and Computer Science A
- **SAT:** 1510 (Math: 800; EBWR: 710)

### Technology & Leadership

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#### Hack Club President

2021-2023

- Prepared and conducted programming workshops, hosted events, and led in house software development
- Generated interest within the club, gathered and handpicked teams to represent the club in events

#### School Technology Coordinator

2021-2022

- Led all technology-related duties in the school, such as setting up presentations for events and assemblies
- Managed and hosted inter-school and intra-school technology events

#### Open Source Developer

2020 - Present

**Wizemen.NET:** A modular C# library to programmatically access my school's portal, built by reverse engineering all API endpoints and creating a custom session layer. Used by other students in school (1.2k+ downloads)

**Khan Academy Chrome Extension:** An extension for Chrome-based browsers that lets users watch Khan Academy videos past 2x speed. Published on the chrome web store, downloaded by 20 users

#### Game Jams

2020 - Present

**Bushido:** 2D Live multiplayer game where duo shoguns work together to fend off enemy ninjas

Awarded 2nd Overall | Built using C#, .NET 3.0, Unity, and a custom TCP Server

- Developed the client and server side application
- Helped conceptualize idea, and aided in art and music development

**Just A Shot:** Play as a young and struggling reporter who finds himself stuck in a strange and dark cult

Built using C#, Unity, and Photoshop

- Developed the client application, music, and background art
- Aided with development of pixel art, character design, and plot development

#### Hackathon Projects

2020 - Present

**SUAVE - Search and Use APIs Very Easily:** website, CLI, Discord Bot to help developers find APIs to use

Awarded Best Use of Jina AI | Built in C#, CQL, Python, Jina AI, DataStax Astra

- Developed the database, REST server, and frontend
- Conceptualized idea, and aided with development of discord bot

**Playwright Paladin:** productivity-focused website and browser extension for writers, enhancing focus during writing

Awarded Third Overall, Best Use of Linode Cloud | Built using MERN stack, Linode Cloud, Twilio

- Developed server side, client side, and extensions application with TypeScript/Prisma/Postgres/NextJS
- Assisted development of media on website

### Awards & Honours

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#### Bronze Medal, AMO

2022

- Ranked 5th bronze internationally, 19th nationally, and 2nd in school

#### Silver Certificate, Infinity Math Competition by Aditya Birla

2022

- Top 2.5% in International Mathematics competition "Infinity" by Aditya Birla World Academy, with over 1000 participants

#### Bronze Medal, QLABs by University of Queensland

2022

- For creating "Sakha" a business to help the underprivileged, at QLABs, a business competition run by the University of Queensland

Freelanced with clients worldwide; developing mobile applications, websites, servers, games, and other applications; with various technologies – JavaScript/TypeScript (Node.js), C#, Rest APIs, ReactJS, HTML/CSS, git, CI/CD pipelines, Docker, and more.

**AI BreakRoom:** A break time logging portal for A1 partners using their unique ID tags – logs, tracks, and notifies management when employees take a break and generate statistical breakdowns of each employee's break timings and durations.

- Created using C#, Docker, GitHub CI/CD, and MySQL

**Inwohn Catalog:** A mobile application used on in-store tablets to let customers view all designs in the store and in storage; updated dynamically when any inventory changes are made.

- Created using C#, JWT, Typescript, React Native, GitHub CI/CD, and PostgreSQL

**Trading Algorithms:** Developed various algorithms that trade live on various stock exchanges

- Wrote modular and extendable broker logic to simplify management of multiple orders
- Coded broker and feed logic for Zerodha, Finvasia, Binance, IG, and ICICI Direct
- Coded primarily in python and TypeScript

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### Independent & Guided Projects

**Mathematics Exploration:** How multivariable differential equations can be used to model and predict the population of prey and its predators - exploring and extending the lotka-volterra model

**Physics Exploration:** How does the range of a ping pong ball differ from its theoretical prediction when launched at different velocities, when the air condition, the ball's mass and shape, and the angle of incline of the launcher are kept constant

**Borrow My Book:** A portal for students in my school to get books from their seniors instead of buying new ones, saving money and the environment; built using TypeScript, Next.JS, Tailwind, Postgresql, Prisma, and Docker

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### Additional Information

- **Languages:** English, Hindi, Punjabi, Spanish
- **Skills:** Web Development, Backend Development, Stock Analysis, Game Development
- **Hobbies:** Basketball, Gaming, Anime, Cooking