

# Nimay Desai

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## LEADERSHIP EXPERIENCE

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### HB CodeLink (Coding Club)

President

May 2024 – Present

- Organized programming lessons with 9 Units from Web Development to Machine Learning
- Ran a club website and social media page to enhance recognition, contributing in boosting our member count by **60% (114 members)**
- Made a full study guide website for students to review key concepts along with lesson slides via Google Slides

### MindFull Hacks

Co-Founder

Sep 2024 - Present

- Started a hackathon dedicated to creating a mental health app for students
- Achieved support from our local school for the first hackathon and the University of Toronto for our second event
- Completed the first hackathon with over **150** participants from our school

## AWARDS

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- 1st place in FBLC Coding and Programming at the national level
- 1st place at the school level for the Galois Math Contest
- 2nd place at the school level for the Cayley Math Contest

## PROJECTS

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### Numina (SpurHacks)

Team Member

Jan 2024– Feb 2024

- Developed an AI service that allows users to setup an interactive 1 on 1 video call with a STEM tutor
- Fullstack application using Flask and SocketIO that connected to a REST API utilizing a [Next.js](#) frontend, designed with TailwindCSS
- Used Manim + FFmpeg to render animated videos on the fly through the Claude 4 API
- JWT Authentication for secure user login
- Quiz/flashcard generation using LLM-based evaluation
- WebRTC used to support seamless real-time interaction

### Nutrimind (HackCanada)

Team Member

Feb 2024

- Developed an AI recipe search engine, where the user can type out their parameters and Nutrimind will automatically retrieve personalized recipes
- Utilizes RAG with LangChain JS trained on Kaggle recipes utilizing the Gemini 2.0 LLM
- Designed an intuitive frontend with Next.js, React.js, TailwindCSS and Framer Motion
- Created a GraphQL API connecting the Node.js backend to the frontend

## EDUCATION

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### Harold M. Brathwaite Secondary School (Grade 11)

Brampton, Ontario

IB Diploma Programme

Expected Graduation, May 2026

- o **Current Courses:** IB Chemistry HL, IB Math AA SL, IB Physics SL, IB Business Management HL, IB English Language and Literature HL, IB French SL
- o **Other Related Courses (Completed):** ICS3U0, ICS4U0
- o **Current average:** 97.3%

## SKILLS

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**Languages:** JavaScript/TypeScript, Python, Java, C++, SQL, HTML, CSS/SCSS, GraphQL,

**Frameworks/Libraries:** React.js, Next.js, Node.js, LangChain, FastAPI, Flask, React Native

**Tools:** Linux, Neovim/Vim, Docker, Bash/Zsh, SSH, Postman