SARTHAK GUPTA

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PROFESSIONAL EXPERIENCE

Software Engineer Intern *(Contract-Full Time)*   April 2025 – June 2025
Jobreel - Mississauga, Ontario
- Built full-stack AI assistant UI using Next.js, LangSmith, Python APIs, and GCP services.
- Integrated LangChain memory to persist user session data, prompt flow, and approval logic.
- Used backend APIs to restore prior state, preload history, and manage chat session context.
- Enabled voice input using Web Speech API with live transcription and fallback text options.
- Tuned prompt flows, assistant responses based on user feedback, trace analysis, and agent logs.
- Created backend API endpoint to generate signed URLs for safe document preview rendering.
- Integrated document viewer in chatbot UI to display files directly through secure GCS URLs.
- Contributed actively to team discussions, giving feedback on UX flow and interaction clarity.
- Ensured WCAG accessibility with ARIA roles, navigation, and consistent contrast validation.

Open Education Resource Assistant   Sept 2024 – April 2025
Library and Learning Services, Conestoga College
- Assisted in the development, editing, and publishing OER's using Pressbooks, an advanced content management system for creating professional digital textbooks.
- Recorded audio versions of textbook content for integration into **H5P-based** interactive activities.
- Conducted comprehensive testing to verify all UI elements, alt text, links & navigation behavior.
- Authored and styled textbooks using HTML and custom CSS for accessible designs.
- Created and tested interactive learning activities with H5P Studio to enhance engagement.

VOLUNTEERING EXPERIENCE

Full-Stack Developer   July 2024 – Present
ComUnity Canada , *HackTheBrain* *(Not-For-Profit)* | NGO-LinkedIn
- Replaced GoDaddy site with a custom build, cutting costs by **99.5%** and improving speed by **2X.**
- Designed and built the NGO platform using Node.js, EJS, Tailwind CSS, and ShadCN UI.
- Built a scalable admin dashboard using MongoDB to manage mentors, forms, and content.
- Developed a full-featured hackathon portal for 500+ participants, supporting real-time registration, approval workflows, event judging and email confirmations.
- Boosted combined site traffic by **880+** monthly visits via SEO, testing, and UX audits.
- Used SuperTest to test Express endpoints and confirm reliability across major user actions.

Website Development and Tech Integration   August 2024 – Present
Olive Branch Mentorship Inc *(Not-For-Profit)*| Letter of Appreciation
- Designed and developed a fully responsive website for OBM using WIX and custom CSS.
- Enhanced overall website functionality, accessibility through UI redesign improvements.
- Implemented interactive features to improve UX and streamline mentor-mentee communication.
- Collaborated weekly with the co-founder to align technical solutions with organizational goals.
- Utilized Trello boards for agile task management and effective sprint planning execution.

HACKATHONS

Capture the Flag – *University of Guelph*	November 2024
HackCanada 2025 – *Wildfrid Laurier University, Waterloo*	March 2025
ConHacks 2025 – *Conestoga College, Waterloo*	March 2025
Seneca Hackathon 2025 – *Seneca College, Toronto*	March 2025

TECHNICAL PROJECTS

Personal Portfolio Website | **Stack**: *Node.js, Express.js, EJS, CSS, MongoDB*.
- Styled the website entirely from scratch using custom CSS for a unique and professional design.
- Integrated MongoDB to store and manage only Contact Form submissions dynamically.
- Deployed the project on Vercel for seamless global access, performance, and CI-based updates.
- Used Git workflows with branches, pull requests, screenshots,reviewed merged code efficiently.

HowGood – AI-Driven Sustainability Platform | YouTube Demo Video
Stack: *Next.js, Node.js, Express.js, MongoDB, Clerk, OpenAI API, SerpAPI, Tailwind CSS, Shadcn UI*
- Built an AI platform to analyze product sustainability across supply chain, packaging, emissions.
- Enabled product search via name/link with real-time sustainability scores using GPT-4o,SerpAPI.
- Integrated speech-to-text, secure authentication via **Clerk API**, and educational recycling tools.
- Supports 98% accurate sustainability matching for common household items.
- Used Mermaid.js for documenting project architecture and data flow in markdown files.
- Designed for scalability, supports future features like receipt scanning and browser extensions.

MediQueue – Smart Walk-in Clinic Queue Management System | YouTube Demo Video
Stack: *Streamlit (Python), Docker, SQLite, TypeScript, Tailwind CSS, Shadcn UI*
- Built a digital queue system to replace manual tokens and streamline patient check-ins.
- Used Streamlit for enhanced backend performance and SQLite for data storage and Docker.
- Designed a receptionist dashboard with auto wait-time estimates to improve patient experience.
- Implemented real-time queue updates and status sync using session state and cache refresh.
- Tested full user flow across devices, validating layout, button states, and alert behavior.
- Projected to reduce clinic crowding by 20–30%, improving flow and reducing uncertainty.

CO-CURRICULAR ACTIVITESs

Vice President – IT Club   August 2024 – April 2025
Conestoga College, Brantford, ON
- Founded the IT Club at Conestoga College and grew it to over to 260+ students in 7 months.
- Organized 4+ events every term to support students through skill-building & career development.
- Led initiatives such as Networking Events, Resume-Building Workshops, Personal Branding sessions, LinkedIn optimization sessions, and large-scale Hackathons each semester.
- Designed promotional materials using Canva, maintained Excel Sheets for planning & execution.

Student Success Officer – Seneca Hackathon 2025   Nov 2024 – March 2025
Seneca College-Newnham Campus, Toronto, ON
- Managed participant onboarding, including registration tracking and communication via email.
- Maintained Excel sheets to organize event logistics and ensure accurate participant data.
- Provided hybrid support during the event, assisting attendees both in person and online event.
- Handled onboarding and communications, ensuring participants were informed and prepared.

EDUCATION

Web Development – Post Graduate Certificate   January 2024 – April 2025
Conestoga College, Brantford, ON   *GPA: 3.83/4.0 (A+)*

Bachelor of Computer Applications   2020 – 2023
Panjab University, Chandigarh, India   *GPA: 3.90/4.0 (A+)*
- *Verified by WES: Equivalent to 4-year Canadian Bachelor's Degree*