

Pranay Harpalani

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EDUCATION

Bachelor of Computing - Computer Science, Minor in Economics

Sep 2022 - May 2026

University of Guelph

Guelph, ON

- **GPA:** 3.7/4.0.
- **Relevant coursework:** Database Integration, Software Development, Finance, Accounting.
- **Leadership:** Vice President of College of Engineering Student Council, Senate Representative for B. Computing.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C/C++, TypeScript, HTML/CSS, SQL, R, Assembly.

Frameworks / Libraries: React, Angular, Next.js, Three.js, JavaFX, JUnit, SQLite, Firebase.

Developer Tools: Git, Linux, Unix, AWS, Terraform, Docker, Jira, Tableau, Power BI, Excel.

EXPERIENCE

Data Structures Teaching Assistant

Sep 2024 - Apr 2025

University of Guelph | C, Python, Git.

- **Taught fundamental data structures**, including trees, graphs, linked lists, and pointers, to over 80 students through lab sessions and **programming in C**.
- Streamlined grading and feedback using Python scripts to evaluate programming assignments, **reducing grading time from 2 weeks to 30 minutes**.

Blockchain & Web3 Security Researcher

Jul 2024 - Aug 2024

Webacy

- **Analyzed 20 emerging blockchain technologies**, evaluating their innovation potential and identifying opportunities for Webacy to leverage them in enhancing its platform.
- Presented key findings, including 4 promising technologies, to stakeholders, leading to **valuable insights on security trends and innovation**, and receiving positive feedback on the strategic direction.

Software Developer, Front-End

Jan 2024 - Apr 2024

Teachify AI | Next.js, React, JavaScript, HTML/CSS, Supabase, Jira, Git

- **Developed React components** for the flagship website of an AI-driven education startup, leveraging Agile methodologies to manage projects effectively.
- **Documented 20% of new code changes** and design updates, improving development speed and streamlining onboarding for new hires, enhancing project delivery and efficiency.

Software & Automations Developer

Sep 2023 - Apr 2024

Google Developers Student Club | Python, Firebase, Trello, Git

- Implemented Python scripts to automate emails, **improving task completion from 5 minutes to 30 seconds** per email for over 1000+ emails, playing a key role in securing over \$15,000 in sponsorship funds.
- **Mentored hackers** in GDSC Hacks, a Hackathon with over 250 in-person attendees, while **hosting workshop events** on innovative technologies like **Firebase and Git**.

PROJECTS & ENTREPRENEURSHIP

Grilling.AI | *Next.js, React, TypeScript, AWS, OpenAI, DALL-E, Vercel*

devpost.com/software/rap-ai

- Engineered an **AI app** for the Brainrot Jia.Seed Hackathon, leveraging OpenAI's GPT for natural language generation, DALL-E for imagery, and text-to-speech conversion, attracting **150+ users within 48 hours**.
- Architected a **back-end with endpoints** to optimize **AI API integrations** and built an engaging, responsive front-end in TypeScript, delivering a **high-performance, stunning platform**.

Out The Groupchat | *Next.js, React, JavaScript, Firebase, Google Cloud, TailwindCSS*

outthegroupchat.ca

- Created a dynamic scheduling app using Next.js and Firestore, enabling users to **create, customize, and share fun-filled itineraries** for group trips and vacations, making planning more enjoyable and coordinated.
- **Accumulated 30+ active users** while deploying on Google Cloud with **scalable infrastructure** for storage and user authentication, creating an engaging experience with features like shareable calendar links.