

# Het Patel

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## EDUCATION

### Western University

Expected 2026

*Bachelor of Science (Honours), Specialization in Computer Science*

*London, ON*

- Cumulative GPA: 3.8/4.0; Dean's List; **NSERC USRI Scholarship (\$9600)**
- Relevant Coursework: Software Engineering, Artificial Intelligence, Data Structures & Algorithms, Operating Systems

## TECHNICAL EXPERIENCE

### Fullstack Software Developer

Oct 2024 – April 2025

*Tech for Social Impact Club | Youth Opportunities Unlimited (YOU)*

*London, ON*

- Developing a certification-based learning platform that enables users to complete courses, earn certifications, and manage their skills through an intuitive interface.
- Aided in backend development by setting up server.js, authentication with JWT, Postgres database, and API endpoints, along with implementing features to manage certifications and skills.
- Designing and developing frontend components, including responsive login/signup pages, dynamic profile displays, and intuitive navigation with React and Redux to enhance user experience and manage state.

### Software Developer

May 2024 – Present

*Human Centered Computing Group | Western University*

*London, ON*

- Developed a Chrome extension for NLP annotation that allows users to highlight text and extract key information for text classification, sentiment analysis, and entity recognition, significantly reducing manual annotation effort.
- Added functionality for users to share annotations via QR codes and a built-in messaging system, making collaboration more seamless and improving annotation organization by category.
- Enhanced the annotation tool by integrating capabilities for annotating text, audio, and video to support detailed analysis of multi-format interactions.

### Undergraduate Research Assistant

Feb 2024 – Apr 2024

*Human Centered Computing Group | Western University*

*London, ON*

- Authored an academic paper on using LLMs to detect phishing threats, including migrating and analyzing data from over **4,000** fraudulent emails; presented findings at the **HSI 24 International Conference**.
- Enhanced data interpretability by utilizing statistical analysis and data visualization techniques through R.
- Conducted performance analysis on 15 AI models by calculating metrics such as mean, standard deviation, and percentile distributions, identifying ChatGPT 3.5 as the top performer with a detection accuracy of **98%**.

## PROJECTS

### Memeify: AI Study Aid | Python, React, Flask, SQLite, groq API, Imgflip API

July 2024 – July 2024

- Developed an AI-powered platform that gamifies studying by transforming traditional flashcards into engaging learning tools with **95% content relevance** through meme integration and a custom matching algorithm.
- Integrated Imgflip API for dynamic meme generation, allowing users to create contextually relevant and visually appealing memes based on their flashcards and study questions.

### Tiles: Smart Music Composer | Typescript, MongoDB, svelte kit, Tailwind.css, Katex

Jan 2025 – Jan 2025

- Developed a piano improvisation platform that suggests notes to enhance compositions, generates custom backing tracks to harmonize music, and includes a frequency chart to assist beginners with music theory.
- Designed an innovative composition experience that combined dynamic note suggestions with user control, earning recognition as a winner at **United Hacks 2025**.

### GitInsights | Typescript, Next.js, Express.js, D3.js, Prisma, PostgreSQL, Github API

March 2024 – March 2024

- Built a developer tool that summarizes GitHub commits using LLMs, auto-generates descriptive commit messages, and visualizes project history through an interactive timeline.
- Implemented smart filtering by user, file, and tags to help users trace code changes and understand project evolution. .

## TECHNICAL SKILLS

**Languages:** C, C++, Javascript, Typescript, Python, Java, SQL (PostgreSQL, MySQL), Microsoft SQL Server, XML

**Frameworks:** React.js, Next.js, Express.js, Flask, Node.js

**Developer Tools & Platforms:** Git, Jira, Confluence, Selenium, Azure, Linux, Unix, Web Services

**Concepts:** Software Development Life Cycle, Agile Methods, OOP, SOLID Principles, Unit Testing, RESTful APIs