

# Het Patel

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## EDUCATION

### Western University

(BSc.) Honors specialization in Computer Science

Expected 2026

London, ON

- Cumulative GPA: 3.8/4.0; Dean's List
- Relevant Coursework: Software Engineering, Artificial Intelligence, Algorithms, Operating Systems

## EXPERIENCE

### LLM'S Research Assistant

Western University | Human Centered Computing Group

May 2024 – Present

London, ON

- Developed a Chrome extension for NLP annotation to improve text classification, sentiment analysis, and entity recognition, reducing manual annotation effort by **25%**.
- Increased sentiment analysis accuracy by **12%** by fine-tuning a large language model (LLM) on a specialized dataset of **85,000 entries**, using the annotation system.
- Enhanced the annotation tool by integrating capabilities for annotating text, audio, and video to support detailed analysis of multi-format interactions.

### Fullstack Software Developer

Western University | Tech For Social Impact Club

Oct 2024 – Present

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, 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 to enhance user experience.

### Undergraduate Research Assistant

Western University | Human Centered Computing Group

Feb 2024 – Apr 2024

London, ON

- Authored an academic paper focused on leveraging LLMs to identify and mitigate phishing email threats; presented at the **HSI 24 international conference** showcasing results from analyzing over **4,000 fraudulent emails**.
- Enhanced data interpretability through statistical analysis and data visualization techniques, including linear regression and k-means clustering.
- 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 | Python, React, Flask, SQLite, groq API, Imgflip API

July 2024 – June 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.
- Added personalization by refining meme suggestions based on user feedback to better match study preferences.

### Notification System | React, MongoDB, Node.js, Socket.IO, Electron.js

Aug 2024 – Aug 2024

- Developed a PC application using Electron.js and Node.js to manage and block excessive notifications from selected messaging apps, minimizing notification overload.
- Enabled users to block notifications from selected apps when the frequency exceeds one every three seconds.
- Addressed complexities in pulling and tracing notifications across multiple applications to identify their origin.

## TECHNICAL SKILLS

**Languages:** Java, HTML/CSS, Python, C#/C++, PostgreSQL, MySQL, Bash, Postman

**Frameworks:** React.js, Vue.js, Flask, Express.js

**Developer Tools:** Git, AWS, Jira, Node.Js, PowerBI,

**Concepts:** Software Development Cycle, Agile Methodologies, RESTful API, CI/CD Pipelines, Process Scheduling, protocols