

# Ashmaan Sohail

[ashmaan.sohail@queensu.ca](mailto:ashmaan.sohail@queensu.ca) | [linkedin.com/in/ashmaan-sohail](https://linkedin.com/in/ashmaan-sohail) | [github.com/Ashmaan-2006](https://github.com/Ashmaan-2006) | [ashmaansohail.com](https://ashmaansohail.com)

## Education

### Queen's University

*Bachelor of Applied Science in Computer Engineering*

Kingston, ON

*Expected April 2028*

## Experience

### Incoming Undergraduate Researcher

July 2025 – Present

*Queen's University*

*Kingston, ON*

- Will begin assisting research in mid-July on machine learning algorithms for understanding human-focused data such as video, audio, text, and wearable signals

### Software Engineer Intern

May 2025 – August 2025

*Playtoon.it*

*New York, Remote*

- Built modular full-stack features using Next.js, Node.js, and TypeScript, enabling scalable content delivery for a blockchain-based storytelling platform
- Designed and optimized PostgreSQL databases using Prisma ORM, increasing system reliability and query efficiency
- Enhanced product capabilities and development speed by integrating LLM tools (e.g., OpenAI APIs) within agile workflows

### Software Developer Intern

March 2025 – May 2025

*WiseMatic*

*Toronto, ON*

- Developed and modularized 6+ Flutter screens from Figma specs, boosting UI consistency across devices by ~90%
- Refactored Flutter codebase using Cubit to separate business logic from UI, cutting code duplication by 40% and improving maintainability
- Reduced widget rebuilds and layout thrashing, enhancing UI responsiveness and system performance on mid-range devices

## Extracurricular Experience

### Team Lead Developer | *Queen's University Web Development*

Jan 2025 – May 2025

- Led a team of four developers in building a real-time event planning platform, using Python (Flask/FastAPI) and SQL to manage scalable backend infrastructure through linux-based servers
- Developed a React-based front end with JavaScript, TypeScript, and HTML/CSS, integrating real-time updates via WebSockets, improving system responsiveness by 30%
- Streamlined communication and task management using GitHub and Trello, ensuring 100% on-time project delivery

## Projects

### MapleLens (GenAI Hackathon) — *Flutter, Python, OCR, RapidFuzz*

March 2025

- Built a mobile-first Flutter app that detects U.S. imports from user-submitted product photos through OCR, then recommends tariff-free alternatives based on brand and packaging
- Integrated real-time camera and gallery uploads with `image_picker`, processed images via Google Vision and OpenAI API, and applied RapidFuzz string matching on a Python/Vercel backend to return relevant matches

### MNAFS Portfolio — *Typescript, Tailwind, Node.js, React.js*

January 2025

- Co-founded MNAFS, an e-commerce platform for South-Asian fashion, generating over \$15,000 in sales
- Built a full-stack website using React.js, Node.js, MySQL, and Express with automated reliability scripts
- Integrated Square API and wireless checkout systems, increasing transaction efficiency and revenue by 40%

## Technical Skills

**Languages:** Javascript, Typescript, Python, C/C++, SQL, HTML/CSS, Swift, Dart

**Frameworks:** React, Next.js, Node.js, Express.js, Tailwind CSS, FastAPI, Prisma, PostgreSQL, Docker, REST APIs, Flutter, PyTest, QGIS, Git, GitHub, Agile, Vercel, WebSockets, LLM APIs, OpenAI Tools

**Awards/Distinction:** Pulsar LanuchPad Member, Horatio Alger Scholar, Hypatia Math Contest Distinction