

# IQBAL MASHAL

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## Education

### Seneca Polytechnic

Sept 2023 - Present

*Computer Programming & Analysis Advanced Diploma*

*Toronto, ON*

- President's Honour List — **GPA: 3.9/4.0**
- Courses: Advanced Database Services, Object-Oriented Programming, Cloud Computing for Programmers , Operating Systems, Software Testing, Web Programming for Apps & Services, Data Structures & Algorithms.

## Work Experience

### ANSS Foundation

Jun 2025 - Aug 2025

*Full Stack Developer Intern*

*Scarborough, ON*

- Redesigned homepage with modern **Next.js** components, increasing user engagement by **40%** and achieving **95% positive stakeholder feedback**
- Streamlined membership application system, reducing processing time by **50%** and increasing successful applications by **25%**
- Enhanced database performance with **MongoDB schema optimization** and **JWT authentication**, achieving **60% faster data retrieval**
- Built a scalable community platform supporting **500+ active members**, reducing operational costs by **30%** while tripling concurrent user capacity

## Projects

**PDFlex** | *Next.js, LangChain, Google Generative AI, Tailwind CSS, Convex, Clerk*

- Integrated **Google Generative AI** and **LangChain** to extract key insights from PDFs, reducing study material search time by **65%** and enabling smarter notetaking
- Developed a responsive UI with **Next.js**, **React**, and **Tailwind CSS**, increasing user session duration by **40%**
- Implemented **Convex** for scalable data management and **Clerk** authentication, ensuring 99.9% uptime and secure access

**File Keeper** | *TypeScript, Next.js, Tailwind CSS, AWS S3, Firebase*

- Engineered a virtual file management platform using **TypeScript**, **AWS S3**, and **Firebase**, enabling secure cloud storage with 100% file retrieval accuracy
- Integrated **Firebase Authentication** for secure login/signup, achieving zero reported breaches and a **30% faster** onboarding process
- Optimized real-time data handling with **Node.js** and **Firebase Storage**, improving file upload/download speeds by **45%**

**GPT Lite** | *Next.js, IndexedDB, OpenAI REST API, JavaScript*

- Built an AI-powered chat application with **Next.js** and **OpenAI REST API**, reducing average user query resolution time by **50%**
- Implemented offline capability using **IndexedDB**, enabling 100% functionality without internet for stored conversations
- Enhanced responsiveness and load performance by **35%** through optimized JavaScript workflows and efficient API request handling

## Technical Skills

**Languages:** C, C++, C#, Bash, JavaScript, TypeScript, Python, SQL, HTML5, CSS

**Backend:** MongoDB, PostgreSQL, MySQL, Oracle, Firebase, Node.js, Express.js, GraphQL, Convex

**Frontend:** React.js, Next.js, Gatsby, Shaden, Tailwind CSS, Bootstrap, HTML5, CSS

**DevOps/Cloud:** Git/GitHub, Docker, AWS (IAM, EC2, S3, Lambda, RDS), CI/CD, GitHub Actions

**AI & Machine Learning:** LangChain, LangGraph, OpenAI REST API

**Operating Systems:** Windows Server, Linux, Ubuntu

**Developer Tools:** Postman, PowerBI, Jira