

# Sufyan Khan

## Education

**Western University | London, ON**

**September 2020 – Present**

BESc - Software Engineering | Dean's honor list 2021, 2022 | GPA: 3.7/4.0

## Experience

**International Test Pilots School (ITPS) | Engineering Intern | London, ON**

**May 2022 – August 2022**

- Designed and installed flight recording/streaming system on L-39 Trainer Jet. Python script designed with reference to OBS API
- Re-designed python script for infrared touch screen (Large Area Avionics Display).
- Designed and implemented a basic relational database in MS Access.

**Western Aero Design Club | Ground Station Developer | London, ON**

**September 2020 – May 2022**

- Developed a database driver using the Mongoose package in JavaScript to interact with a MongoDB database and retrieve flight data
- Implemented flight playback and parameter recording in JavaScript
- Used version control (Git) to manage the project

## Projects

**RememberIt | [CRUD Web-App](#) | MERN Stack**

**June 2022 – August 2022**

- RememberIt allows users to create and track any of their memories
- Designed the UI in Figma
- React.js front-end connected to a express.js back-end (REST API) for handling HTTP requests
- Data stored and accessed via Mongoose which interacts with a MongoDB instance running in a Docker container

**Projection | Video Game | Unity, C#**

**January 2022 – May 2022**

- Worked in a team of 4 to create a medium-sized role-playing game (RPG)
- Implemented combat and enemies with C# scripts, paying attention to object-oriented programming principles and creating re-usable code
- Planned and created levels
- Created algorithms for game/weapon balancing

**iFashionStore | Database and UI | Java DB, Java**

**September 2021 – December 2021**

- Detailed requirements elicitation from problem statement
- Created extensive UML case and class diagrams to model the system
- Implemented database in Java DB
- Implemented front-end UI using JavaFx, used SQL to query data

## Skills

**Programming:** Java, JavaScript (Frameworks: Node.js, Express.js, React.js), MongoDB, HTML, CSS, Python, SQL

**Technologies:** Version Control (Git), Docker, NoSQL, NPM, AWS, Java DB, Unity

**Other:** Strong OOP Fundamentals, Data structures and Algorithms, Web Principles

## Extracurricular Activities

**Hack Western 8 | Glacier Web-App**

**November 2021**

- Designed a Web-App to help users track daily water intake
- Managed and dictated tasks to 2 other university students
- Rapidly designed, iterated, and prototyped the app in under 8 hours