

Sufyan Khan

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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). Eliminated redundant clicks, increased smoothness, and reduced system crashes by 100%
- Designed and implemented a basic relational database in MS Access, consolidated spreadsheets, and increased aircraft tracking efficiency by 75%
- Presented in weekly stand-up meetings to update management and request resources

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