George Saad

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Summary of Qualifications

- **Programming Languages:** Python 3 (3 years), Java (1.5 years), C++, Matlab
- **Other Skills:** Object Oriented Programming (OOP), Google Cloud, Google Firebase, use of APIs, Git, Android Studio, Microsoft Office, Time Management, Leadership, and Teamwork skills
- **Languages:** English (Native proficiency), French (Limited working proficiency)

Projects / Accomplishments

HyperBot (Chatbot), UofTHacks VII 2020 – *January 2020*
https://devpost.com/software/hcchat, https://github.com/epicrunze/HCChat

- Winner of the **Hypercare API** prize for building the best healthcare chatbot
- Used **Google Cloud App Engine** and **Flask** to host the backend and receive POST requests from webhooks
- Used **Google Firebase** to store and update a database using **JSON** files
- Used **Hypercare API** to receive and send messages, schedule appointments, and find other doctors
- Used **ELMo** for **NLP** to convert user input to the closest symptom, and return a diagnosis accordingly
- All code was written in **Python 3**
- Used **Git** for coordination of work and version control

HootGuard (Android app), Hack the North 2019 **–** *September 2019*
https://devpost.com/software/hootguard-xghezv, https://github.com/gkysaad/HootGuard

- Created an **Android** app in **Java** that detects drowsy driving
- Used **CameraX** library to retrieve image of face
- Used **ML Kit** from the **Google Firebase API** for facial recognition

1st place DPCDSB Programming Competition, Educational Computing Organization of Ontario– *March/April 2018*

- Worked in team of 4 to solve 5 programming problems in 3-hours
- Won 1st place out of all teams participating in the Dufferin-Peel Catholic District Board competition
- Moved on to the regional competition and was an Ontario Semifinalist

Lane Detection Project – *June 2019*
https://github.com/gkysaad/Lane-Detection-Project-OpenCV

- Used **OpenCV** in **Python** to analyze dash cam footage and mark out lane lines

Education

University of Toronto | Engineering Science | 2019-2024 | GPA: 3.9/4.0

- Candidate for Bachelor of Applied Science (BASc) – Engineering Science (first year)
- Accomplishments:
    - University of Toronto Scholar ($7500 scholarship)
    - Faculty of Applied Science and Engineering Award for exceptional academic achievement and extra-curricular involvement ($2500 scholarship)
- Completed Coursework: Calculus 1 (4.0/4.0), Introduction to Computer Programming (4.0/4.0), Engineering Math and Computation (4.0/4.0), Engineering Design (Praxis 1) (3.7/4.0), Classical Mechanics (3.7/4.0), Structures and Materials (4.0/4.0)
- Current: Calculus 2, Data Structures and Algorithms, Fundamentals of Electric Circuits, Molecules and Materials, Linear Algebra, Praxis II (Engineering Design)

St. Francis Xavier SS | International Baccalaureate Diploma, OSSD | 2019 | 98% (Grade 12)

- Completed ICS3U and ICS4U (grade 11 & 12 university-level computer science) courses, achieving 95% in ICS4U