George Saad

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Summary of Qualifications

- **Programming Languages:** Python 3 (3 years), Java (1.5 years), C\C++, HTML, CSS, Javascript, 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

Projects / Accomplishments

Spark Plug (Web App), NewHacks 2020 – *March 2020 – Present*
https://devpost.com/software/newhacks2020, https://github.com/gkysaad/NewHacks2020

- Used **HTML** and **CSS** to create the UI for the web app
- Used **Javascript** to send POST and GET requests to the **ParseHub API** to scrape Kijiji Autos for cars matching specific criteria
- Used **Git** for coordination of work and version control

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

Data Science/ML Learning Project – *January 2020 - Present*
https://github.com/gkysaad/scikit-learn-project

- Wrote my own **KNN (k-Nearest Neighbors)** algorithm in **Python 3** and tested it on the Iris data set, achieving accuracy in the **90% range**
- Fitted the Iris dataset to a **Decision Tree Classifier** using **scikit-learn** and tested its accuracy

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)