George Saad

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Summary of Qualifications

- **Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, JSX, MATLAB
- **Technologies:** React.js, Node.js, Express, Google Cloud, Google Firebase, REST APIs, Git, Android Studio

Work Experience

Software Engineer, Delovery **March 2020 – Present**

- Worked on a **Python** web scraper using **GET** requests and **Beautiful Soup** to scrape **915 data points** and graph the data using **Matplotlib**
- Learned and used **React.js** to create frontend components, making use of states to create a state machine and retrieved data from a backend API
- Created backend routes and functions using **Node.js** and **Express** to allow the fronted to make GET and POST requests to the backend to initiate and submit payments
- Used **Postman** to create a mock API server to allow for frontend testing

Projects / Accomplishments

Spark Plug (Web App), NewHacks 2020 **March 2020**

- 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**

- Winner of the **Hypercare API** prize for building the best healthcare chatbot
- Used **Google Cloud App Engine** and **Python 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
- Used **Git** for coordination of work and version control

HootGuard (Android app), Hack the North 2019 **September 2019**

- 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 – March 2020**

- 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**

- Candidate for Bachelor of Applied Science (BASc) – Engineering Science
- Relevant Courses: Introduction to Programming (A+), Algorithms & Data Structures (A+)

LinkedIn Learning Courses

- Learning React.js (May 2020)
- React.js Essential Training (May 2020)