George Saad

g.saad@mail.utoronto.ca | www.linkedin.com/in/gkysaad | www.github.com/gkysaad | 647-544-5877

Summary of Qualifications

- **Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, ES6, JSX, MATLAB
- **Technologies:** React.js, React Native, Node.js, Express, Google Cloud, Google Firebase, REST APIs, Git, Android Studio, Expo

Work Experience

OrangeTopi   **May 2020 – Present**
Lead Software Engineer Intern   *Sunnyvale, California*
- Led a team of **8 – 10 developers** providing guidance on **React Native**, reviewing code, and approving PR's
- Rapidly developed various frontend components in **React Native** and **Node.js** backend functions to enable quick MVP release
- Developed an algorithm in the **Node.js** backend to get nearby partnered restaurants with the **Mapbox API** and provide recommendations to users based on current order quantity

Delovery   **March 2020 – June 2020**
Software Engineer   *California, United States*
- Worked on a **Python** web scraper using **GET** requests and **Beautiful Soup** to scrape **915 data points** and graph the data using **Matplotlib**
- Designed and developed frontend components with **React.js** and retrieved data from mock APIs built with Postman for testing and the **Node.js** 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

Projects / Accomplishments

Spark Plug (Web App), NewHacks 2020   **March 2020**
- Used **HTML** and **CSS** to create the UI for the web app and **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**
- **Award:** Best Healthcare Chatbot (**Hypercare API** prize) – **1st** out of **70** teams
- Used **Google Cloud App Engine** and **Python Flask** to host the backend and receive POST requests from webhooks and **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, using **CameraX** library to retrieve image of face and **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 (4.0), Algorithms & Data Structures (4.0)

LinkedIn Learning Courses
- Learning React.js (May 2020), React.js Essential Training (May 2020)