George Saad

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Summary of Qualifications

- **Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, ES6, JSX, MATLAB
- **Technologies:** React.js, React Native, Node.js, Express, Python Flask, Google Cloud, Google Firebase, 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
- Fast-paced development in **React Native** and testing with **Expo**, including setting up app notifications and login app state with the **React Context API**
- Developed multiple algorithms and functions in the **Node.js** and **Express** backend to get nearby partnered restaurants with the **Mapbox API** and for payment and email handling

Delovery **March 2020 – June 2020**
Software Engineer Intern *Sunnyvale, California*

- 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 an API using **Node.js** and **Express** to handle payment initiation and submission requests from the frontend

Projects / Accomplishments

Spark Plug, 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, 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 a Python **ELMo** module to preform **NLP** on user input and map it to a symptom to produce a diagnosis
- Used **Git** for coordination of work and version control

HootGuard, 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**

- Developed **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 achieved **92% 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)