George Saad

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Education

University of Toronto | Engineering Science - Bachelor of Applied Science (BASc) | GPA: 3.8/4.0 **2019-2023**

- **Relevant Courses:** Introduction to Programming (4.0), Algorithms & Data Structures (4.0)

Work Experience

Freelance **December 2020 – Present**

Software Engineer *Mississauga, Ontario*

- Built a **Couchbase** datastore and caching module for the Akka **Play! Framework** in **Java** with **ASCIIDOC** documentation, **Guice** and **JUnit** unit testing, a demo app, and an introductory blog post

OrangeTopi **May 2020 – December 2020**

Lead Software Engineer Intern *Sunnyvale, California*

- Led a team of **8 – 10 developers** by providing guidance on **React Native**, reviewing code, approving PR's, and leading product demos
- Developed **50%+** of the **React Native** mobile app for **Android** and **iOS** in a fast-paced environment, including **Expo**, app notifications, and authentication with the **React Context API**
- Developed multiple backend functions in **Node.js** and **Express.js**, including all payment and email handling
- Reduced deployment time by over **90%** by implementing a **CI/CD** pipeline for automatic deployment

Delovery **March 2020 – June 2020**

Software Engineer Intern *Sunnyvale, California*

- Built a **Python** web scraper using **Beautiful Soup** to scrape **915 data points** and graphed it using **Matplotlib**
- Designed and developed several major frontend components with **React.js**, including the entire cart user flow, including retrieving data from mock APIs and the **Node.js** backend API
- Created an API using **Node.js** and **Express.js** to handle all payment processing with Braintree Payments

Projects / Accomplishments

GPT-3 for Finance (Demo) **July 2020**

- Built a RESTful **Python Flask** server to create and fill a balance sheet based on natural statements, using the **OpenAI GPT-3** NLP API and the **Google Sheets API**
- Featured on InfoQ and received **100,000 views**
- Used **Git** for coordination of work by creating branches, PRs, and reviewing code

HyperBot, UofTHacks VII 2020 (Code) **January 2020**

- Won **1st** out of **70** teams by building the best healthcare chatbot (**Hypercare API** prize)
- Used **Google Cloud App Engine** to host a RESTful **Python Flask** backend to receive POST requests from webhooks and **Google Firebase** to store and update a **Firestore** 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

HootGuard, Hack the North 2019 (Code) **September 2019**

- Created an **Android** app in **Java** that detects drowsy driving, with successful testing on 8+ users, 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** with **90%+ accuracy** using the Iris dataset
- Fitted the Iris dataset to a **Decision Tree Classifier** using **scikit-learn** and achieved **92% accuracy**

Skills

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