

George Saad

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Education

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

- Major in Machine Intelligence, Minor in Engineering Business (Anticipated)
- Relevant Courses: Introduction to Programming (4.0), Algorithms & Data Structures (4.0)

Work Experience

Loblaw Digital Starting May 2021
Incoming Software Development Intern Toronto, Ontario

Freelance December 2020 – Present
Software Engineer Mississauga, Ontario

- Built **Couchbase** datastore and caching modules for the Akka Play! and Vert.x frameworks in **Java** using **Singleton** and **Dependency Injection (DI)** design patterns, and reactive programming, with Guice and JUnit unit testing
- Wrote ASCIIDOC documentation, and created 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 in developing a **React Native** mobile app MVP in under 6 months by providing guidance and developing components, including app notifications and authentication with the React Context API
- Reduced deployment time by over 90% by implementing a **CI/CD** pipeline for automatic deployment
- Developed multiple backend functions in **Node.js** and **Express.js**, including all payment and email handling

Delovary March 2020 – June 2020
Software Engineer Intern Sunnyvale, California

- Reduced market research time by over 80% by building a **Python** web scraper using BeautifulSoup to scrape and graph 900+ data points using **Matplotlib**
- Designed and developed the cart user flow and other major frontend components in **React.js** with Material-UI
- Created an API using **Node.js** and **Express.js** to handle all payment processing with PayPal Braintree Payments

Projects / Accomplishments

crowd.data, Hack the North 2020++ ([Project](#), [Blog](#)) January 2021

- Top 4 out of 30 projects submitted for the Dropbase API prize
- Developed **Node.js** and **Express.js** RESTful backend and **React.js** frontend components with Chakra UI
- Created 4 data models with **CockroachDB** (PostgreSQL) using the **Sequelize ORM**, and Dropbase API integrations

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
- Received 100,000 views, featured on [InfoQ](#) and on Y Combinator Hacker News front page

HyperBot, UofTHacks VII 2020 ([Code](#)) January 2020

- Won 1st out of 70 teams by building the best healthcare chatbot (Hypercare API prize)
- Employed **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
- Implemented Hypercare API integration to receive/send messages, schedule appointments, and find doctors
- Used a Python **ELMo** module to preform **NLP** on user input and map it to a symptom to produce a diagnosis

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, CockroachDB, PostgreSQL, Verilog, Google Cloud, Google Firebase, Git, Android Studio, Expo, Couchbase, Play Framework, Vert.x