George Saad

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Education

University of Toronto   **Sep. 2019 – May 2023**
Bachelor of Applied Science in Engineering Science   *GPA: 3.8*
Major in Machine Intelligence, Minor in Engineering Business (Anticipated)

Experience

Loblaw Digital   **May 2021 – Present**
Software Development Co-op   *Toronto, ON*
- Set up latency log tracking in various functions in the **Spring Boot Java** backend and created **GCP** metrics and dashboards to extract and display the data, with 200k+ data points collected per hour
- Led research into content targeting engine and presented to the 40+ member PC Optimum team to enable personalization of marketing tiles for consumers
- Created various internal self-serve and admin endpoints to reduce development, testing, and debugging time by over 60% for various parts of the PC Optimum product

Content Turbine (Freelance)   **Dec. 2020 – Present**
Software Development Freelancer (Part Time)   *Mississauga, ON*
- Built NoSQL 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
- Contributing to the **JHipster** open-source project (over 18,000 stars) by implementing a major upgrade for a **Spring Data** SDK integration, including **Full Text Search (FTS)**
- Wrote ASCIIDOC documentation, created demo apps and wrote technical blog posts

FoodTrain (formerly OrangeTopi)   **May 2020 – Dec. 2020**
Lead Software Engineer Intern   *Sunnyvale, CA*
- 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

Delovery   **Mar. 2020 – Jun. 2020**
Software Engineer Intern   *Sunnyvale, CA*
- Reduced market research time by over 80% by building a **Python** web scraper using Beautiful Soup 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

Open Source Contributions

JHipster Database Integration | Pull Request | *Java, Spring Boot, Spring Data, NoSQL*   **May 2021 - Jul. 2021**
- Adding support for a popular NoSQL database service to the JHipster project with over 156,000 monthly downloads

Couchmove Full Text Search (FTS) | Pull Request | *Java, Couchbase*   **Jun. 2021**
- Resolved Github issues and implemented major bug fixes for the FTS functionality in the Couchmove project

Projects

crowd.data | *Node.js, Express.js, React.js, CockroachDB, PostgreSQL*   **Jan. 2021**
- Top 4 out of 30 projects submitted for the Dropbase API prize at Hack the North 2020++

GPT-3 for Finance | *GPT-3, Python, Flask*   **Jul. 2020**
- Built a RESTful **Python Flask** server to fill a balance sheet using natural statements, using the **OpenAI GPT-3** API
- Received 100,000 views, featured on InfoQ and on Y Combinator Hacker News

Technical Skills

Languages: Python, Java, JavaScript, C, C++, HTML/CSS, YAML, PostgreSQL, MATLAB
Technologies/Frameworks: Spring Boot, React.js, React Native, Node.js, Express.js, Flask, Git, Couchbase, Linux, GCP, Firebase, Play Framework, Vert.x, JHipster

Awards

UofTHacks 2020   Best Healthcare Chatbot Hack, 1st out of 70 teams
ECOO-CS Programming Contest 2018 1st out of 40 teams