RÉNA SOPHIA HAJJAR

21rsh8@queensu.ca | +1 (647) 205-9075 | linkedin.com/in/rena-hajjar | renasophiahajjar.netlify.app | github.com/rena-hajjar

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, Typescript, Ruby, SQL, C++, HTML, CSS

Frameworks & Technologies: React, Angular, Spring Boot, MATLAB, Azure Tech Stack, MongoDB, Docker, Power Automate

EDUCATION

Queen's University, Kingston, Ontario

September 2022 — April 2026

Computer Science BCS with Honours

• Queen's University Excellence Award (92%+ Entrance Scholarship)

Culminative GPA: 3.9/4.3

• Coursework: Data structures, algorithms, complexity analysis, linear data analysis with MATLAB, operating systems

EXPERIENCE

Backend Software & Data Engineer Intern

Toronto, Ontario

Ontario Public Service

May 2024 - Aug 2024, Full-Time | Sept 2024 - Dec 2024, Part-Time

- Modernizing Ontario application interfaces by rebuilding in a SpringBoot backend for higher scalability
- Growing project management skills in an Agile development environment through participation in senior workshops
- Exploring fundamental backend principles such as HTTP requests, SSL, and web servers
- Automating email alerts by building API endpoints to listen to database updates and alert user accounts accordingly
- Streamlining data flow through ETL pipelines built in Azure Data Factory while documenting the process
- Driving satisfaction by presenting data in client-specified format through **Azure Databricks notebook** transformations written in **Spark and SQL**
- Expediting booking reservation system with Microsoft Power Automate to completely automate database update process Undergraduate Student Researcher

 Toronto, Ontario

Queen's Lab for Percutaneous Surgery

October 2023 - Present, Part-Time

- Automating data flow pipeline using Pandas to increase efficiency of data annotation to training
- Attaining end-to-end machine learning knowledge, from data pre-processings to scripting and calibrating
- Training ML models for surgical object recognition and tracking if machinery in 3 dimensions

Software Engineer Intern

Toronto, Ontario

Readwise

May 2023 - September 2023, Full Time

- Co-authored the new Notebook feature in Readwise Reader, as well as eliminated bugs in previously written features with code-reviews from senior developers
- Gained full-stack experience, with a front-end focus on React and NodeJS web development written in Typescript and back-end data migration tasks with Python
- Developed with React best principles in mind, creating components according to user input with a CI/CD mindset
- Collaborated with **cross-functional teams** to learn from and reach common goals to better the company in a dynamic startup environment
- Contributed to the global team effort to drive user growth by **8,000 customers** during time spent at Readwise, with **over 25 personal pull requests merged**

PROJECTS

Good Reads for Nerds - Book Tracking Application - github.com/rena-hajjar/GoodReadsForNerds

July, 2024

- Developed a **dynamic web application** with a **React frontend** and **Spring Boot backend**, integrated with **MongoDB** for efficient database management
- Implemented features enabling users to comment and annotate individual book chapters, enhancing reading comprehension and providing a platform for thoughts
- Currently expanding the project to include user accounts, authentication, and comprehensive unit testing
- Future enhancements include the creation of user-driven "book clubs" for collaborative discussions and idea sharing

Injection Administration Tracking -3^{rd} place winner of NextGen Simulation Hackathon Fe

February $9^{th} - 11^{th}$, 2024

- Developed a metric-based training system for lifelike clinical simulations. Utilizing optical tracking and open-source software, created a visual guidance tool for injections, providing real-time feedback to students
- Using an OptiTrack camera and 3D printed sensors on the needle, metrics were transferred via Plus to 3D Slicer, visualizing movement on a phantom model
- Students were able to **visualize the movement** of their needle with Slicer transforms, as well as **analyze the angle and depth** of their injection practice

FreshSave — QHacks 2024 Submission — github.com/rena-hajjar/QHACKS24

February $1^{st} - 4^{th}$, 2024

- ullet Developed an application to combat food waste in Kingston in a 48 hour development sprint
- Implemented a MongoDB backend for efficient inventory management, and integrated OpenAI's API with Python injections for real-time meal kit creation with food close to expiry
- Designed a user-friendly React frontend for seamless interaction, enabling nonprofits to coordinate same-day pickups
- Presented project goals and impact at a final conference, showcasing expertise in backend development, frontend design, and API integration

EXTRACURRICULAR ACTIVITIES

 ${\bf Logistics\ Director-- Smith\ Business\ \&\ Technology}$

• Leading a team of 5 students to organize a conference to bridge the knowledge gap between business and tech

HackHer Coordinator — Queen's Women in Computing

• Organizing a 100 person hackathon with sponsored events and keynote speakers, with an aim to encourage women to inquire more and put their ideas into action in a 48 hour sprint