RÉNA SOPHIA HAJJAR

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TECHNICAL SKILLS

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

Frameworks & Technologies: React, Angular, Spring Boot, MATLAB, Microsoft Azure, MongoDB, Docker, Postman

EDUCATION

Queen's University, Kingston, Ontario

September 2022 — April 2026

Computer Science BCS with Honours

Culminative GPA: 3.9/4.3

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

• Coursework: Data structures, algorithms and 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

- Modernizing Ontario applications by rebuilding backend in **Spring Boot** and frontend in **Angular** for higher **scalability**
- Growing project management skills in an Agile development environment through PMI workshop participation
- Exploring fundamental backend principles such as HTTP requests, SSL, and web servers
- Automating email alerts by building and testing RESTful APIs with Postman to trigger calls on database updates
- Streamlining data flow with ETL pipelines built in Azure Data Factory and kept technical documentation of the process
- Specifying data to client needs through Azure Databricks notebook transformations written in PySpark and SQL
- Expediting booking reservation system to retrieve and transform information from emails 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 annotation to transformation to training data flow
- Attaining end-to-end machine learning knowledge, from data pre-processing to scripting and calibrating
- Training ML models for surgical object recognition and tracking of 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
- Ensured quality of application on mobile, as well as web using Android Studio and React Native
- 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 in a React best-principles environment, 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, for a fully-rounded education
- 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
- 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 to imitate common social media functions

Injection Administration Tracking — 3rd place winner of NextGen Simulation Hackathon February $9^{th} - 11^{th}$, 2024

- Improved healthcare training methods by developing a metric-based evaluation system for lifelike clinical simulations using optical tracking and open-source software to create a visual guidance tool for injections, with real-time feedback
- 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

- 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

Logistics Director — Smith Business & Technology

April 2024 - Present

• 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

April 2023 - Present

• Organizing a 100-person hackathon with sponsored events and keynote speakers, with an aim to increase female curiosity and engagement within a 48 hour sprint