

Derron Li

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EDUCATION

McMaster University – Hamilton, ON

Expected April 2026

B. Eng. Software and Biomedical Engineering – CGPA: 3.96/4.0

Relevant Coursework: Data Structures & Algorithms, OOP, Computer Architecture, Discrete Math

Awards: Dean's List, Professional Engineers Ontario Scholarship

TECHNICAL SKILLS

Languages: Python, Java, HTML, CSS, JavaScript, R

Frameworks / Technologies: Django, React, Unix, Linux, Bash, Git, AWS

EXPERIENCE

Princess Margaret Cancer Centre

May 2022 – August 2022

Bioinformatics Research Intern

Toronto, ON

- Analyzed **500k+** lines of data by developing **Bash scripts** which identified mutations in tumor DNA samples
 - Mentored a colleague on the creation of the pipeline for use in their separate project
- Implemented a CSV **file parser** in R that reduced workflow runtime by **50 hours per 100 samples**, by automating data cleaning and restructuring
- Independently learned several new technologies and libraries, including R, Bash, Unix, Git and ggplot2

PROJECTS

Song Recommender | *Python, Django, React, JavaScript*

August 2022

- Developed a **full-stack** web application which identifies similar songs by comparing Spotify API metrics
- Implemented a search bar which fetches **Spotify API** endpoints and updates in real-time using React state
- Integrated **REST API** views in Django back-end to handle song information requests from the front-end

Personal Website | *Python, Django, HTML/CSS, JavaScript*

July 2022

Website | GitHub

- Engineered a database using Django ORM which increased **efficiency by 100%** by enabling **CRUD** operations to easily add and update personal project descriptions
- Built a responsive front-end that renders **database queries** and gets URL routing requests from the back-end
- Deployed using Heroku, **PostgreSQL** and improved **scalability** by using **AWS S3** for storing files on the cloud

Sorting Algorithm Visualizer | *React, JavaScript*

July 2022

Website | GitHub

- Learned **React** in 1 month to build a web application for visualizing **sorting algorithms**
- Implemented Merge Sort, Quick Sort and Bubble Sort in JavaScript

LEADERSHIP

MEDLIFE Ontario | *Vice President* | Non-profit

August 2019 – March 2021

- Led a fundraiser that united 233 students to raise **\$17 000** for poverty-stricken families in Latin America

ADDITIONAL INFORMATION

Interests: Pianist (11 Years), French Hornist (6 Years), Music, Snowboarding, Biotech, Mountain Hiking

Used CAD to 3D print a makeup brush for patients with fine motor disabilities – selected as a finalist amongst 50 teams