Derron Li

derronli14@gmail.com | 647-668-3831 | linkedin.com/in/derronli | github.com/derronli | Toronto, ON

EDUCATION

McMaster University   Expected April 2026
B. Eng. Software and Biomedical Engineering – CGPA: 3.96/4.0   Hamilton, ON
- Relevant Coursework: Data Structures & Algorithms, OOP, Computer Architecture, Discrete Math

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.
- Reduced workflow runtime by **50 hours per month,** by independently learning several R libraries to implement a CSV **file parser** which automated data cleaning and restructuring.

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.
- Communicated song information requests from front-end to back-end by integrating **REST API** views in Django.

Personal Website | *Python, Django, HTML/CSS, JavaScript*   July 2022
Website | GitHub
- Engineered a database using Django ORM which significantly **increased efficiency** 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.
- Improved **scalability** by integrating **AWS S3** for cloud file storage and deployed using Heroku and **PostgreSQL.**

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 (Non-profit)   August 2019 – March 2021
Vice President   Toronto, ON
- Led a fundraiser that united 233 students to raise **$17 000 in 3 days** for poverty-stricken families in Latin America.

TECHNICAL SKILLS

Languages: Python, Java, HTML, CSS, JavaScript, R
Frameworks / Technologies: Django, React, Unix, Linux, Bash, Git, AWS

ADDITIONAL INFORMATION

Interests: Pianist (11 Years), French Hornist (6 Years), Music, Snowboarding, Biotech, Mountain Hiking
Certificates: Data Structures and Algorithms – Grow with Google, Udacity
Used CAD to 3D print a makeup brush for patients with fine motor disabilities – selected as a finalist amongst 50 teams.