

Simon Risk

+1 (613) 929-9709 | risk.simon@queensu.ca | simonrisk.github.io | Kingston, ON

EDUCATION

Queen's University

Bachelor of Applied Mathematics and Computer Engineering - **GPA 3.8**

Kingston, ON

Sept. 2023 – May. 2027

EXPERIENCE

Data Analyst

Mar. 2024 – Present

CREO Solutions

Kingston, ON

- Cleaned data, identified and analyzed trends, completed technical reports
- Hired as 1 of 2 data analysts (**6%** acceptance rate) for Canada's top student consultancy

Software Developer / Founder

Apr. 2024 – Present

inQubate

Kingston, ON

- Processed and cleaned **audio data** of children speaking into spectrograms
- Using a **CNN model** to detect correctly and incorrectly pronounced words with an accuracy over **50%**
- Developing over **5** games to improve learning experience of speech therapy

Sales Associate

June 2023 – Aug. 2024

Ahoy Rentals

Kingston, ON

- Managed online bookings, processed payments, greeted and assisted customers, repaired equipment

General Labourer

June 2022 – Sept. 2023

Queen's University

Kingston, ON

- Transported and managed stock, installed sanitation equipment, painted building interiors, worked with team

PROJECTS

Full Stack Music Genre Classifier | Project | Python, Swift, Scikit-Learn, Flask

June 2024 - Aug. 2024

- Trained **4** machine learning models, attaining an average accuracy of **85%** in classifying music genres
- Developed an interactive **iOS 17** front-end from a **Figma** wireframe
- Utilized a **RestAPI** approach with custom endpoints, HTTP requests and JSON responses
- Implemented **Docker** to deploy the application through on an iPhone

Machine Vision Camera System | Project | Python, PyTorch, HTML, CSS, JavaScript

Jan. 2024 – May. 2024

- Developed a full-stack web application using with **Flask**
- Developed and trained an object detection ML model to detect up to **15** different objects in pod's path

Retail Store Data Analytics | Python, Pandas, Matplotlib, Seaborn, Numpy

Mar. 2024

- Utilized descriptive statistics to explore **8** different analysis objectives
- Generated **data visualization** and performed **statistical analysis** to provide business insights
- Styled and polished graphs, developed slide deck summarizing analysis process and insights

Automated Fluid Dispenser | C, Arduino, Electrical Components

Sept. 2023 - Dec. 2023

- Incorporated an **Arduino**, motors, IR sensors, and a water pump to detect and fill test-tubes
- Developed a concise **C** program to control the volumes and concentrations dispensed

EXTRACURRICULAR

Leadership Conference Director | Kingston Secondary School

Mar. 2021 – Dec. 2022

- Organized a three-day, **100** student retreat with the goal of improving leadership skills
- Fundraised over a **thousand** dollars to allow underprivileged children to participate

Volleyball | Kingston Secondary School, Kingston Rock Volleyball Club

Sept. 2020 - May 2023

- Worked as a member of the leadership committee, aiding in the coaching decisions of the team
- Received the "MVP" award

TECHNICAL SKILLS

Languages: Python, C/C#, JavaScript, HTML/CSS, Java, Swift, Dart, PostgreSQL, Bash, MongoDB

Frameworks/Libraries: Flask, Django, React, Pandas, Numpy, SKLearn, PyTorch, Keras, Express, Matplotlib

Tools: Git, VS Code, Eclipse, XCode, Jupyter Notebook, Office 365, Arduino IDE, SolidWorks