Simon Risk

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EDUCATION

Queen's University   Kingston, ON
*Bachelor of Applied Mathematics and Computer Engineering - **GPA 3.8***   *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, Arudino, Electrical Components*   Sept. 2023 - Dec. 2023
- Incorporated an **Arudino**, 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