Sacha Perry-Fagant

ACADEMIC PROJECTS/COMPETITION

- **Master's Thesis, Niels Bohr Institute (2019-2020)**
  - Master's degree in quantum physics, specializing in high energy physics and cosmology
  - Thesis: Myers-Perry Black Holes as Blackfolds
- **Undergraduate Research Project McGill (2017)**
  - Performed data analysis on brightest cluster galaxies to investigate the relationship between the magnitude gap and redshift of a cluster
  - Python was used to classify the galaxies, carry out calculations, and plot the results.
- **McHacks (2018)**
  - Won second place in a competition using machine learning (neural network) to classify data
  - Used OpenCV to process images and detect shapes

EMPLOYMENT

- **Smallbrooks – Software Developer (November 2018-Present)**
- Working on Smallbrooks crowdfunding platform as a service
- Scala, Java, JavaScript, React, SQL, Elm, GraphQL
- Object oriented and functional programming
- **Jonar – Software Developer (March-August 2018)**
- Worked on Paragon ERP: cloud-based ERP software
- JavaScript frontend and backend
- Agile development using Scrum
- **Distributed Digital Music Archives and Libraries- Software Developer (May-December 2017)**
- Worked on an online application that allows users to automatically classify symbols.
- JavaScript frontend and Python backend
- Django, Ajax, jQuery

SKILLS

Computer

Proficient
- Python
- C#
- Java
- Scala
- Latex
- Mathematica
- Adobe Premiere Pro
- Web development

Intermediate
- Machine Learning
- SQL
- C
- Functional Programming
- Bash
- MIPS
- MATLAB

Performance

- Public Speaking
- Theatre Performance
- Classical Musical Performance
- Choir

LANGUAGES

- English (Native)
- French (Intermediate)