HARSHANA **RUNJEET**

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harshanar.jdb.382@gmail.com

SKILLS

- Bsc. Physics (ongoing)
- Python (Advanced), C++ (In progress)
- Knowledge of statistical physics
- Data processing with pandas, numpy, and scipy
- Udemy courses in desktop applications, Python, and C++ (Ongoing)
- Version control with Git and code sharing on GitHub
- Bilingual (French/English)
- Data manipulation and visualization with matplotlib
- Qiskit

DATA SCIENCE EXPERIENCE:

QUANTUM ALGORITHM DEVELOPER
SCIL GROUP, UNIVERSITÉ DE SHERBROOKE (T1, WINTER 2024 - ONGOING)

- Usage of scilpy and dipy libraries
- Learning of diffusion MRI theory and tractography
- Application of quantum computing in neuroinformatics, focusing on graph structures for combinatorial processes
- Scientific presentations
- Precise writing of scientific reports
- Active collaboration in developing code teams

RESEARCH ASSISTANT IN SEMICONDUCTOR PHYSICS
PR.MATHIEU JUAN'S GROUP, UNIVERSITÉ DE SHERBROOKE (T0 ,SUMMER 2023)

- Proficiency in 3D simulation software QTCAD and Gmsh
- In-depth analysis for theoretical and experimental comparative tests
- Learning in semiconductor physics
- Precise writing of scientific reports
- Skills in scientific presentation

ADMINISTRATIVE AND LOGISTICS EXPERIENCE:

ADMINISTRATIVE ASSISTANT,
SAATVIK CUISINE VÉGÉ, FAMILY BUSINESS (2018-ONGOING)

- Automation of recipe calculations via Excel
- Financial management and expense tracking
- Invoicing and preparation of payroll sheets
- Proactive stock management
- Research in finance and investments

LIBRARY CLERK,
BIBLIOTHÈQUE GEORGETTE-LEPAGE, BROSSARD (2020-2022)

- Welcome and assistance to users
- Efficient management of book loans and returns
- Methodical classification according to the Dewey Decimal Classification

EDUCATION :

BACHELOR OF PHYSICS,
UNIVERSITÉ DE SHERBROOKE, SHERBROOKE, QC (AOÛT 2022 – ONGOING)

- Relevant courses: Quantum Mechanics I, Statistical Physics I, Scientific Computing, Medical Physics, Quantum Computing and Information (ongoing), Experimental Physics II, etc.
  - GPA : 3.1/4.0 (Improvement from 2.72 to 3.85 in three sessions)

COLLEGE DIPLOMA IN PURE AND APPLIED SCIENCES,
CEGEP ÉDOUARD-MONTPETIT, LONGUEUIL, QC (2020 – 2022)

- Relevant projects: Creation of a classic video game in HTML and JavaScript
  - Relevant courses : Introduction to Theoretical Physics, Multivariable Calculus

SCHOLARSHIPS :

QSciTech Scholarship for a research internship on quantum wells in semiconductors (Internship T0)
Algo-Lab Scholarship for a quantum computing application internship in quantum tractography (Internship T1)

PROJECTS :

Codes : **harshana20011 (github.com)**
Chronicles : **Harshana Runjeet, auteur sur Le Val-Ouest**