Colin Panter
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I am looking for a position that will allow me to apply my skills in software engineering and physics to solve complex problems. I am motivated to continue developing my abilities as well as sharing the knowledge I already possess.

EDUCATION

B. Eng. Software Engineering 2021-2023
Laval University, Québec

M. Sc. Electrical Engineering (not completed) 2020
- Use multitask learning to facilitate training of deep neural networks on new tasks in super-resolution microscopy (STED)
- Organise data from microscopes to facilitate its usage

Laval University, Québec

B. Sc. Physics (Concentration in theoretical physics) 2017-2020
Laval University, Québec

SPECIFIC SKILLS

- Python, Java, JavaScript (Typescript, Node, React), C++, LaTeX
- Git, Pytorch, Docker, SQL
- Object oriented programming and functionnal programming
- Machine learning, data analysis and computer vision
- Linear algebra and statistics
- French and English

EXPERIENCE

Microservices Developper (Part time) September 2022 - May 2023
(Internship) Summer 2022

Desjardins, Lévis
- Work in an agile framework requiring coordination from multiple teams
- Develop, document and deploy services used by Desjardins' conversational robot
- Ensure the continuous deployment of services supported by the team

Deep Learning Algorithms Developper (Internship) Fall 2021
Military base of Valcartier, Québec
- Extend known techniques to different spectral bands : visible and near-infrared (VNIR), short-wave infrared (SWIR), long-wave infrared (LWIR)
- Develop deep learning algorithms for target identification on hyperspectral images
- Analyse large datasets to evaluate the performances of developed deep learning methods

Computer Vision Developper (Internship) Summer 2019
CHUL, Québec

- Develop and train a deep convolutionnal neural network and use diverse machine learning methods to identify and track différent points on a mouse's hind legs in a video
- Collaboration with CHUL's neuroscience research center (Prof. Frédéric Bretzner) and the Computer Vision and Systems Laboratory of Laval University (Prof. Jean-François Lalonde)

RELEVANT PROJECTS

Projet de conception multidisciplinaire Hiver 2022

- Design a robot capable of moving an object from one point to another completely unsupervised
- Plan the trajectory and actions of the robot in real time
- Collaboration between des étudiants software, computer and electrical engineering

OTHER EXPERIENCES

Programming tutor 2020-2021
University students, Québec

Physics tutor 2018
Cégep Ste-Foy, Québec