Fabin Joe Flasius

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Personal Portfolio: www.fabinjoe.com

PROFESSIONAL WORK EXPERIENCE

SOFTWARE ENGINEERING INTERN AT INTEL

- Primary worked on a new product, Exploration Dashboard (QED), from just after inception to its first beta release and then to its first public release.
- Defined, designed, implemented, and tested the underlying data model used in the core operation of QED. Primarily utilized TCL & SQL to build the data infrastructure.
- Developed an analysis tool to complement the database.
- Performed R&D on innovative ways to apply this technology.
- Communicated with customers to target the product's functionality around user needs.

COMPUTER VISION ENGINEER AT AUTORONTO

- Developed the 2D Computer Vision Team to develop the vision of an autonomous vehicle.
- Established a data pipeline for the Machine Learning Models.
- Designed Classes to extract information from multiple raw CSV data files.

MACHINE LEARNING RESEARCHER AT THE UNIVERSITY OF TORONTO

- Worked at the Intelligent Sensory Microsystems Laboratory on a low-power machine learning integrated Chip, uNIT.
- Established a real-time Python pipeline for Calcium Imaging Analysis on Neural Tissues.
- Utilized OpenCV and CNNs to extract information on neuron activity.
- Developed a JavaScript GUI to visualize the analyzed data.

COMPUTER VISION & MACHINE LEARNING ANALYST AT UOFT ROBOTICS ASSOCIATION

- Developed the vision of an autonomous robot for the International Autonomous Racing Challenge. Used Python to implement advanced lane and object detection models.

TECHNICAL SKILLS

- **Proficient Coding Language:** C, C++, Python, TCL, JavaScript, SQL, ARM
- **Artificial Intelligence Skills:** Computer Vision using OpenCV and Pytorch
- **Microsoft Office:** Word, Excel, PowerPoint, Access
- **Soft Skills:** Creative Thinking, Adaptability, and Problem-Solving

EDUCATION

University of Toronto – 2019 to Present
Bachelor of Applied Science and Engineering (BASc) in Computer Engineering
3.83 GPA · Minor in Artificial Intelligence · ECE Top Student Award · Dean's Honor List 2019 and 2020 · Academic Director at ECE Club · Executive Member at Hi-Skule™ · Wallberg Scholarship