Dean Van Heukelom Software Engineer

I develop effective solutions to complex, openended problems in an agile environment

Work Experience

Axcessiom Machine Learning Developer

Oct 2020 - Present

Part time development on tools and deep learning pipelines for facial recognition software to improve driver accessibility

Roboteurs UE4/C++ Autonomous Driving Intern

May 2020 - Aug 2020

Designed a distributed simulation from the ground up to provide a testing platform for autonomous driving; provided implementations for vehicle sensors including GPS, vision and assisted in lidar point cloud

Bombardier Database Development Intern

May 2019 - Apr 2020

Full stack development on a complex internal webapp; designed and normalized database schemas to effectively store millions of aircraft engineering records; assisted in migrating these systems into production

Projects

McMaster Al Team Autonomous Vehicle Simulation

Oct 2020 - Present

Chosen to represent the university to develop a segmentation pipeline for perception of a simulated vehicle

Genre Classification

Oct 2020

A self-developed application of a convolutional neural network used to predict the genre of frequency domain transformed audio samples from the GTZAN dataset in TensorFlow

YoloV3 Implementation from Scratch

Aug 2020 - Sep 2020

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A complete implementation of the you-only-look-once object detector from scratch using Torch; provided image preprocessing and prediction postprocessing techniques including non-max suppression, IOU

Other Teels

SKIIIS	Programming	Data Science	Other 100is
	C++	TensorFlow 2	Git
	Python	Torch	Unreal Engine 4
	С	NumPy	SQL
	PHP	Pandas	Html/CSS
	JavaScript	Scikit - Learn	Scrum
	React	Eigen	Zenhub

Data Calamaa

Education

61.111

McMaster University BEng, Software Engineering Management

Sep 2016 - Apr 2022

Consistent 3.6 GPA every year of study in software and mechatronics engineering courses, with minor in business. Ranked first place in software engineering – comp sci class wide competition for lowest runtime of a Mastermind solution