Juan Martín Gómez de Agüero

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EDUCATION

University of Toronto, Trinity College   Sep 2020 - Dec 2024
Honors Bachelor of Science, Computer Science Specialist
Relevant courses: CSC373 Algorithm Design, Analysis & Complexity, CSC369 Operating Systems,
CSC343 Databases, CSC309 Programming on the Web, CSC457 Computer Networks

International School of Brussels   2017-2020
International Baccalaureate

Lycée Français de Madrid   2010-2017
Diplôme National du Brevet

LANGUAGES English (Fluent), French (Fluent), Spanish (Native)

EXPERIENCE

Research Assistant at Medical Operations Research Lab (UofT)   Jan 2024 - Present
Full-stack web application for simulation and analysis of disease spread in communities.
Leader of a team of 6 students, working with partners from morLAB.
[Demo link] • 30+ users • morlab.mie.utoronto.ca • *React JS, Django, MySQL, AWS Batch, Docker*

IT Systems Manager at Farmacia Gómez de Agüero (Madrid)   Summers of 2023 and 2022
Maintained the IT infrastructure running my family's local pharmacy and created the website.
100+ sales • ortopediaonline.es • *Node JS, Wix*

CERTIFICATES

Google Professional Machine Learning Engineer [link]   Sep 30
Vertex AI, BigQuery, MLOps, TensorFlow

AWS Certified Cloud Practitioner [link]   Sep 30
APIs, Compute, Cost Management, Databases, Security, Storage

PERSONAL PROJECTS

Flow
Machine Learning library written in C++. Inspired by using PyTorch with Python.
Supports tensor operations (sum, reshape, matmul etc.) and backpropagation.
98.2% accuracy after 21 min training, classifying handwritten digits using a convolutional NN.
[GitHub link] • *C++, CUDA*

New Dawn
Exploration, survival and construction game in a procedurally generated world.
[Steam link] • [Demo video] • 500+ wishlists • *Unreal Engine 5, C++, AWS GameLift*

AS OF: Sep 2024