

Juan Martín Gómez de Agüero

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Computer Science Specialist at the University of Toronto with a focus on full-stack development, cloud computing, and machine learning. Experienced in leading teams and developing impactful applications. Proficient in a wide range of technologies such as React, Django, AWS, and C++. AWS Certified Cloud Practitioner with a passion for problem-solving and building scalable solutions.

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 (International Baccalaureate) 2017-2020

Lycée Français de Madrid (Diplôme National du Brevet) 2010-2017

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

EXPERIENCE

Research Assistant at Medical Operations Research Lab (UofT) Jan 2024 - Aug 2024

- 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 Assistant 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

AWS Certified Cloud Practitioner (CLF-C02) [\[Credential link\]](#) Oct 10

- Knowledge of AWS Cloud, shared responsibility model, security, and cost management.
- Familiar with core services: EC2, Lambda, VPC, RDS, DynamoDB, S3.
- Able to recommend AWS solutions for common use cases.

PERSONAL PROJECTS

Flow

- Machine Learning library written in C++. Inspired by using PyTorch with Python.
- Supports tensor operations (sum, reshape, matmul etc.) and backpropagation.
- 96% accuracy after 21 min training, classifying handwritten digits using a convolutional NN.
- [\[GitHub link\]](#) • C++, CUDA

Restify

- Website for short-term homestays similar to Airbnb.
- Educational project to practice React development and deployment using Terraform and AWS.
- CloudFront for custom domain with HTTPS encryption and S3 to store the static website.
- [\[restify.ca\]](https://restify.ca) • [\[GitHub link\]](#)

New Dawn

- Exploration, survival and construction game in a procedurally generated world.
- [\[Steam link\]](#) • [\[Demo video\]](#) • 500+ wishlists • Unreal Engine 5, C++, AWS GameLift