

# 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](https://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](https://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