

Gaio Santos

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Education

University of Toronto

Sep 2022 – Present

BASc Computer Engineering — Minors in AI & Business

Toronto, ON

- U of T Engineering International Scholar Award with a value of **\$100,000** (2022).
- Key coursework: Algorithms, Deep Learning, Databases, Operating Systems, Computer Networks.

Technical Skills

Languages TypeScript, Python, C#, C++

Web & Data: PyTorch, NumPy, .NET, React, SQL, Docker, Kubernetes, AWS

Tools: Git, Azure DevOps, Jira, Linux

Work Experience

BTG Pactual

May 2025 – Aug 2025

IT Intern

- Built a **C# ASP.NET Core** microservice with an 8-table MSSQL schema and REST APIs to track complex logic and historical execution states.
- Created 20+ **React** components in **TypeScript** to display validation rules, logs, and filters via interactive tables and charts.
- Developed an asynchronous worker that scans asset data, flags anomalies, and stores alert logs in **AWS S3**, which reduced errors in market data reports by 70%.

BTG Pactual

May 2024 – Aug 2024

IT Intern

- Delivered 10+ **React** micro-frontend pages enabling bankers to build custom templates for the Wealth Management bankers.
- Built Syncfusion tables and graphs to visualize portfolio metrics, helping drive 80% user growth.
- Containerized services with Docker and deployed via **Kubernetes YAMLs** to AWS EKS, storing images in ECR.

Projects

Breast Cancer Detection

Python, PyTorch, NumPy

- Developed a deep **CNN** with **PyTorch**, achieving 85% accuracy, 86% recall, and 85% F1-score.
- Conducted **hyperparameter tuning**, optimizing for high recall (86%) to minimize false negatives in cancer detection
- Applied augmentation techniques to handle 277,000+ image patches, improving model generalization

NaviWeather GIS

C++

- Built a **C++** GIS tool that visualizes data for major cities, enhancing accessibility for urban analysis.
- Implemented A* routing that finds paths 82% faster than Dijkstra's algorithm.
- Integrated OpenWeather API to deliver live weather with a 251 ms average response time.