

Franco Aparicio

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EDUCATION

Honours Bachelor of Science in Computer Science

University of Toronto (CGPA: 3.88)

Relevant Courses: Computer Security, Parallel Programming, Computer Organization, Data Structures and Analysis, Software Design & Development, Web Development

Greater Toronto Area, CAN

Sept. 2022 – Jun. 2026 (Expected)

International Baccalaureate Diploma: 40/45

St. George's The British International School

International General Certificate of Secondary Education (IGCSE): 9 in total

Düsseldorf, DE

Aug. 2020 – May 2022

Aug. 2019 – May 2020

EXPERIENCE

Teaching Assistant

University of Toronto

Sept. 2024 – Present

Toronto, CAN

- Assisted in the instruction of: Computer Organization, Software Design, Software Tools and Systems Programming, and Introduction to Computer Science
- Ran tutorials to supplement lectures and guide learning through weekly presentations
- Created scripts to automate / expedite marking
- Held office hours and answered student questions

LawGenie Co-Founder

The Entrepreneurship Hatchery

May 2023 – October 2023

Toronto, CAN

- Worked on founding a startup company with 3 other students
- Iterated and improved upon business plan and investor pitch over a 5 month period
- Conducted 40+ interviews with industry professionals including lawyers and legal clinic caseworkers
- Performed extensive secondary market research to validate business plan
- Became the lead pitch presenter and successfully delivered the final pitch leading to a nomination to continue to the Go-To-Market Stage

By George! (Student Podcast) Co-Founder

St. George's The British International School

August 2021 – June 2022

Düsseldorf, DE

- Founded, set-up, and helped produce the pilot season of the podcast ([available here](#))
- Worked in a team to plan, research, record, edit, and release each episode
- Established a working production model for the future of the podcast

PROJECTS

IB Timetabler | Blazor, Electron.NET, C#, HTML, CSS, SQLite

September 2021 – March 2022

- Developed a full-stack desktop application using Blazor server application framework and Electron.NET
- Implemented a modified version of the *Forward Checking* algorithm to generate timetables without conflicts
- Created an intuitive UI to view, manage, and export timetables
- Used various asynchronous processes and custom events/event listeners
- Produced UML, entity relationship, and flowchart diagrams along with concise documentation for the project

Sudoku as a Constraint Satisfaction Problem (CSP) | C#, Python

May 2021 – August 2022

- Implemented a Sudoku grid generator capable of creating boards of up to 25×25
- Posed Sudoku problems as CSPs in C# using OOP
- Coded the *Forward Checking* (FC) and *Maintaining Arc Consistency* (MAC) algorithms
- Collected and processed data comparing FC and MAC in a Microsoft Excel spreadsheet using Python
- Produced an extended piece of writing (~4000 words) on the topic and findings

TECHNICAL SKILLS

Languages: RISC-V Assembly, C, Java, C#, Python, CUDA, Bash, SQL, JavaScript, HTML/CSS, English, Spanish, German

Frameworks & Libraries: OpenMP, MPI, Next.js, React, Electron, Flask, Bootstrap, NumPy, Scikit-learn

Developer Tools: Git, SSH, JetBrains Suite, Visual Studio, Atom, VMWare

Other: Regular Linux and Windows user