Franco Aparicio

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Education

Honours Bachelor of Science in Computer Science + PEY Co-op — Greater Toronto Area, CAN
University of Toronto (CGPA: 3.96) — *September 2022 – Fall 2026 (Expected)*
Relevant Courses: AI Ethics, Assembly, Computer Organization, Data Structures and Analysis, Software Design

International Baccalaureate Diploma: 40/45 — Düsseldorf, DE
St. George's The British International School — *August 2020 – May 2022*
International General Certificate of Secondary Education (IGCSE): 9 in total — *August 2019 – May 2020*

Experience

LawGenie Co-Founder — May 2023 – October 2023
The Entrepreneurship Hatchery — *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 — August 2021 – June 2022
St. George's The British International School — *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 Blazer 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 ($\sim$ 4000 words) on the topic and findings

Connect4 Game | *Python* — January 2020 – Present

- Continuously revisit and improve upon previous versions
- Programmed local multiplayer and an AI of variable difficulty
- Implemented the *minimax* algorithm including alpha-beta pruning and a depth limit

Technical Skills

Languages: RISC-V Assembly, Java, C#, Python, SQL (SQLite), HTML/CSS
Frameworks: Blazor, Electron.NET, Flask, Bootstrap, Bulma
Developer Tools: Git, IntelliJ, Rider, PyCharm, Visual Studio, Atom, DB Browser
Libraries: NumPy, Tensorflow, Scikit-learn, RegEx, Openpyxl
Other: Regular Linux and Windows user