

# Franco Aparicio

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## EDUCATION

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**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

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**UTMHacks (Student Organization) Co-Founder and Executive** September 2023 – Present  
*University of Toronto* *Toronto, CAN*

- Founded and contributed to organization set-up.
- Created club website ([available here](#)) with React and directed volunteers for further contributions.
- Work in a team to plan and organize events for our members

**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

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**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  $25 \times 25$
- 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

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**Languages:** RISC-V Assembly, Java, C#, Python, SQL (SQLite), HTML/CSS

**Frameworks:** React, 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