

# Felipe Martinez

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## EDUCATION

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**Carleton University** 2024 – 2027  
*Bachelor of Computer Science Honours: Cybersecurity Stream (Co-op) with Statistics Minor*

**University of Waterloo** 2022 – 2024  
*Bachelor of Honours Mathematics*

## EXPERIENCE

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**Technical Support Engineer** Jan 2024 – Sept 2025  
*Lynxfield Remote*

- Remotely accessed Lynxfield devices to reprogram them, resolving technical issues typically **within 6 hours**
- Developed a **Bash** script to automate an important daily task, saving up to **38%** of task time
- Performed **data entry** tasks directly on Lynxfield's online portals, generating **30+ page** reports containing detailed driver performance and statistics for clients
- Cross-referenced data with clients achieving **98.7%** accuracy across **250+** instances
- Tested a pre-release **Flutter** app to improve functionality and user experience

**Math Tutor** May 2024 – Present  
*Self-employed Belleville*

- Delivered focused 1-on-1 tutoring sessions on a scheduled basis, emphasizing intuition and problem-solving techniques, resulting in students achieving **95%+ grades** on IB tests

## PROJECTS

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🔗 ▶ **Get Off IG Bot** | *Python, Instagrapi API, Cron, GitHub Actions*

- Engineered an Instagram automation bot with **Python** and the **Instagrapi** API to promote mindful scrolling habits by posting daily reminders, leveraging **Cron** and **GitHub Actions** for scheduling.

🔗 📊 **Stock Advisor Bot** | *Python, BeautifulSoup API, Requests API*

- Implemented a comprehensive scoring algorithm based on key financial metrics (P/E ratio, dividend yield, debt-to-equity ratio) to determine stock valuation
- Validated algorithm efficacy with a **15.3%** theoretical return via backtesting over a 6-month period
- Integrated portfolio analysis functionality to analyze multiple stocks simultaneously for ease-of-use

**Target Detection for AEAC Competition** | *Python, NumPy, OpenCV, Git, Raspberry Pi*

*Blackbird UAV Club | Carleton University*

- Developed a computer vision pipeline for autonomous target detection using **Python** and **OpenCV**
- Worked with team members using **Git** to implement colour detection for the AEAC competition

**Canada-Wide Science Fair** | *Golden Ratio: How to Be Beautiful*

2016

- At **age 12**, **won** the 2016 Quinte Regional Science Fair out of **500+ competitors**, including high school students up to **6 years older** and qualified as a **national finalist** and competed in the Canada-Wide Science Fair
- Applied **statistical methods** (coefficient of determination, regression analysis) to evaluate objects in alignment with the Golden Ratio

## SKILLS

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**Languages:** Python, Java, JavaScript, TypeScript, C, Bash, SQL, R, Lua, Racket, Haskell, HTML/CSS

**Libraries:** React, Next.js, OpenCV, NumPy, REST API (Axios, Requests)

**Tools:** Linux (Arch, Debian), Git, Vim/Neovim, VS Code, PyCharm, VMware, Wireshark, Raspberry Pi, Excel

## EXTRAS

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**Social Languages:** English, French, Spanish, Mandarin

**Misc. Tools:** AutoCAD, *Blender*, GIMP, L<sup>A</sup>T<sub>E</sub>X, Cron, FL Studio, DaVinci Resolve

**Interests:** Soccer, chess, *music*, piano, reading, *photography*, *movies*