

MARCELO PONCE

Toronto, ON

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EDUCATION

University of Toronto

Mississauga, ON

Honours Bachelor of Science (HBSc) in Computer Science, Minor in Mathematics

June 2025

Relevant Coursework:

Computer Security, Neural Networks & Deep Learning, Scalable Computing, Algorithm Design, Analysis & Complexity, Parallel Programming, Introduction to Information Security, Introduction to Databases, Programming on the Web, Introduction to Software Engineering, Introduction to Algebraic Cryptography

PROJECTS

CTF427 ◇ github.com/marceloponceardon/CTF427 ◇ VirtualBox, Docker, CTFd, Kali Linux *Jan. 2025 – March 2025*

- Ran a competitive Capture the Flag (CTF) event designed to teach students about common security vulnerabilities, exploit techniques and challenges (SQLi, Cryptography, Vulnerable Executables, Forensics).
- Built a vulnerable site which contained the 4 main challenges, used the CTFd platform to host the event with scoreboard, hints and solution walkthroughs.
- Taught students how to use Kali Linux tools (sqlmap, steghide, gdb, ghidra), alongside Linux tools for challenges.
- Hosted the two web applications via Docker containers on a VirtualBox VM.

jiu-jitsu-autoscoring ◇ github.com/jiu-jitsu-autoscoring ◇ Jupyter, PyTorch, Transformers *Jan. 2025 – Present*

- Developing a 5-step pipeline of machine learning models to automatically score Brazilian Jiu-Jitsu match videos.
- Utilizing PyTorch and HuggingFace Transformers to fine-tune pre-trained models for person detection, pose estimation and classification on a dataset of annotated BJJ matches.

jules-ferguson.com ◇ github.com/marceloponceardon/jules-ferguson.com ◇ React, Express *June 2024 – Present*

- Built a personal website for Jules Ferguson, a Toronto-based photographer and sexual health educator.
- Coordinated with client to design and implement a custom React-based website, integrating downloadable CV, portfolio, and contact form.
- Hosted on Vercel and Render.

Opalescence ◇ github.com/opalescencelabs ◇ GoLang, PostgreSQL, Redis, Google OAuth2.0. *Jan. 2024 – April 2024*

- Co-lead a team of 7 to design and build a web-based sharable note-taking application, overseeing backend development.
- Implemented a RESTful API using GoLang (GinGonic) and PostgreSQL (GORM), with hosted Redis for caching.
- Integrated GitHub Actions for CI/CD, Google OAuth2.0 for user authentication.

TECHNICAL SKILLS

Programming Languages: C/C++, Bash/Shell, Python, JavaScript, Java, GoLang, C#, SQL, HTML/CSS

Tools & Technologies: Wireshark, sqlmap, Ghidra, john the ripper, gdb, scikit-learn, Pandas, NumPy, Docker, LaTeX, React, Node.js

IDEs & Editors: Vim, Visual Studio Code, Eclipse

Version Control: Git, GitHub

Databases: PostgreSQL, MySQL, SQLite, Cassandra, Redis

CI/CD: Github Actions

Other Skills & Tools: Linux, Data Modeling, Automated Testing, Amazon Web Services (AWS) Agile Development, Scrum

WORK EXPERIENCE

Barista

March 2023 – Present

Claudia's Coffee

Toronto, ON

- Prepared custom espresso drinks and specialty seasonal beverages in a fast paced environment, making up to 45 drinks per hour.
- Opening and closing independently of supervision, cash handling, ordering inventory, arming alarms.
- Developed relationships with customers, connecting management with local businesses.