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   *Sep. 2019 – June 2025*

Relevant Coursework:

Computer Security, Introduction to Information Security, 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*
- Designed a competitive Capture the Flag (CTF) event designed to teach students about common security vulnerabilities, exploit techniques and challenges (SQLi, Cryptography, Vulnerable Executables, Forensics)
- Developed Challenges using various programming languages and tools.
- Created a web-based platform using CTFd to host the event.
- Taught students how to use Kali Linux tools (sqlmap, steghide, ghidra), as well as standard Linux tools for relevant challenges.

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 matches using video footage.
- Utilizing PyTorch and HuggingFace Transformers to train models that can recognize and score techniques in real-time.
- Training the model on a dataset of annotated BJJ matches, focusing on key techniques and scoring criteria.

Opalescence ⋄ *github.com/opalescencelabs* ⋄ GoLang, PostgresSQL, Redis, Google OAuth2.0.   *Jan. 2024 – April 2024*
- Worked in a team of 7 to design and build a web-based sharable note-taking application.
- 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: Whireshark, sqlmap, Ghidra, john the ripper, gdb, scikit-learn, Pandas, NumPy, Docker, LaTeX, React, Node.js, Redis
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.

Barista   *Jan. 2022 – March 2023*

Touti Gelati   *Toronto, ON*
- Prepared over 30 beverages and desserts daily, maintaining high quality and presentation standards.
- Enhanced customer experience by providing tailored recommendations for gelato and specialty drinks.
- Managed inventory for daily operations, ensuring availability of ingredients during peak hours.