

26 Willowbrook Rd
Thornhill, ON

PAUL OLTEANU
1B Computer Engineering
University of Waterloo

(647) 449-6597
p.a.olteanu@gmail.com

SUMMARY OF SKILLS

Languages

- C, C++, Elixir, JavaScript, Python, Ruby, SQL

Technologies

- Arduino, AWS, Docker, Linux, MongoDB, Postgres, Squid

EMPLOYMENT

Full Stack Developer Co-op	#paid	January 2018 – April 2018
Social media post & user data collector		
<ul style="list-style-type: none">• Created project spec with CTO, detailing project scope and user story• Architected genstage pipeline with worker backpressure & rate limiting to parallelize data collection jobs• Scraped and processed 30,000 users/day, discovering new influencers for creator relations to onboard• Set up Squid proxy server to cache and spread requests across IPs• Languages and technologies: Elixir + GenStage, AWS, MongoDB, Docker, Squid		
RFP wizard		
<ul style="list-style-type: none">• Led project creating multi-step form used by companies to request a campaign proposal• Increased amount of data collected through RFP pipeline to collect more data for accounts team• Created mocks of RFP tool with UI/UX designer• Languages and technologies: Ruby + Rails, AWS, Postgres, Javascript + JQuery		

PROJECTS

Source code and other projects at github.com/PaulOlteanu

- **Key-value store library:** Implementation of the `Keyword` API for binary keys. Published on Hex (Elixir's package manager). **Elixir**
- **Hardware Logic Gate Simulator:** Logic gate simulator (AND, OR, XOR, NAND), for the Onion Omega 2 embedded system. Configuration done through CSV file. **C**
- **Custom Version Control System:** VCS loosely modeled after git. Supports commit messages, reverting, and a full history view. Represents commits through file diffs instead of full copies to reduce storage footprint. **Python + Click**
- **CHIP-8 emulator:** An emulator for the 35 opcode CHIP-8 interpreted language. **C + SDL**
- **Memory allocator:** Reimplementation of `malloc` and `free` within a 16MB memory block. Uses the boundary-tag method to keep track of allocated and free memory. **C**
- **Image sharing website:** Image sharing website similar to Reddit and Instagram. Allows for multiple sorting algorithms and uses DB-side pagination. **Python + Flask, AWS, Heroku, Postgres**

ADDITIONAL EXPERIENCE AND AWARDS

- **Leader of Computer Club (2015 – 2017):** Led weekly meetings, helped students with projects, taught Python
- **President's scholarship (2017):** Awarded to students with admission averages between 90% – 94.9%
- **Engineering entrance scholarship (2017):** Awarded to students with "outstanding high school records and involvement in extracurricular activities"
- **Certificate of distinction, Canadian Computing Competition (2015 – 2017):** Top 25% of 5000 participants
- **Certificate of distinction, Euclid Math Contest (2017):** Top 25% of 21000 participants