PAUL OLTEANU

1B Computer Engineering
University of Waterloo

26 Willowbrook Rd
Thornhill, ON

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

SUMMARY OF SKILLS

Languages + Frameworks

- Elixir | Python + Flask | C | Ruby + Rails | C++ | SQL | HTML | CSS | Javascript

Technologies

- Linux | AWS EC2 | Docker | Postgres | MongoDB | Arduino | DipTrace

EMPLOYMENT

Full Stack Developer   **Hashtag Paid**   **January 2018 – April 2018**

Post & User data collector

- Created project spec with CTO detailing project scope and user story
- Architected genstage pipeline with worker backpressure & rate limiting to parallelize data collection jobs
- Created adapters for interfacing with Twitter & Youtube APIs, and web-scraping Instagram data
- Using engagement rate and follower data, created post querying timeline to maximize collected engagements
- Languages and technologies: **Elixir + GenStage**, **AWS**, **MongoDB**, **Heroku**

RFP wizard

- Led project creating multi-step form used by companies to request a campaign proposal
- Updated old-style campaign model to collet more data for accounts team
- Worked closely with UI/UX designer, creating mockup of online campaign proposal tool
- Languages and technologies: **Ruby + Rails**, **AWS**, **Postgres**, **HTML**, **CSS**, **Javascript**

PROJECTS

- **Hardware Logic Gate Simulator (2017):** Logic gate simulator (AND, OR, XOR, NAND), for the Onion Omega 2 embedded system. Config done through CSV file. **C**
- **Custom Version Control System (2017):** 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 (2016):** An emulator for the 35 opcode CHIP-8 interpreted language. **C + SDL**
- **Image sharing website (2016):** Image sharing website similar to Reddit and Instagram. Allows for multiple sorting algorithms and uses DB-side pagination. **Python + Flask**, **AWS**, **Heroku**, **Postgres**
- **Memory allocator (2016):** Reimplementation of `malloc` and `free` within a 16MB memory block. Uses the boundary-tag method to keep track of allocated and free memory. **C**
- **Tuple library (2015):** Implementation of the `Keyword` API for binary types. Published on Hex (the Elixir/ Erlang package manager), with 600 installs. **Elixir**

Source code and other projects at github.com/PaulOlteanu

ADDITIONAL EXPERIENCE AND AWARDS

- **Leader of Computer Club (2015 – 2017):** Held weekly meetings, helped students with projects, taught Python
- **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