Paul Olteanu

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Work Experience

Nymi Inc   *Toronto, ON*
SDK DEVELOPER   *September - December 2018*

- Optimized Phoenix server to minimize latency in Citrix environments
- Interfaced with Windows APIs to support Citrix
- Refactored handling of messages from Nymi Band and NEAs using **Serde**
- Key Technologies: **Rust, Elixir + Phoenix, Windows APIs**

#paid Inc   *Toronto, ON*
FULL STACK DEVELOPER   *July - August 2017, January - April 2018*

- Created full data collection project spec and timeline with CTO, specifying scope of versions 1 to 3, and user stories for each version
- Architected parallelized job pipeline using Elixir's **GenStage** library for worker backpressure and rate limiting
- Processed **30,000+** users/day, allowing for better campaign targeting and the discovery of new influencers to onboard
- Configured **AWS EC2** instances for staging and production use, and set up **Squid** proxy servers for request caching
- Led project updating multi-step form for clients to create campaign proposals, increasing amount of data collected from RFPs
- Key Technologies: **Ruby on Rails, Elixir, AWS EC2 & IAM, Postgres, Mongo**

Projects

Tay Racer
A CONTINUALLY WIP RAY TRACER   *December 2018*

- Multiple cameras can be arbitrarily positioned for every scene
- Allows scenes to be exported as PNGs
- Implemented in **Rust**

CHIP-8
AN EMULATOR FOR THE 35 OPCODE CHIP-8 INTERPRETED LANGUAGE   *October 2017*

- Handles all 35 opcodes + legacy mode for opcodes that have traditionally been misimplemented
- Interprets binary .ROM files (CHIP-8 machine code)
- Implemented in **C** using **SDL2**

PVCS
VERSION CONTROL SYSTEM   *January 2017*

- Supports commits with messages, reverting, and full logs
- Stores commits as diffs to reduce storage footprint, with complete backups every *n* commits to increase revert speed
- Implemented in **Python** using **Click**

Proplist
IMPLEMENTATION OF THE 'KEYWORD' API FOR BINARY KEYS   *October 2015*

- Contributed to library adding binary (string) key support to keyword lists by re-implementing the Keyword API
- **Published** on Hex (Elixir's package manager), with **~1,000 installs**
- Implemented in **Elixir**

Education

University of Waterloo
CANDIDATE FOR B.AS. IN COMPUTER ENGINEERING. CURRENTLY 2A   *Expected Completion Apr. 2022*