Paul Olteanu

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Work Experience _____

#PAID INC Toronto, ON

Software Developer

January - April 2018, May - August 2019

- Architected OTP application to maximize stability and parallelize as much work as possible
- · Created a persistent priority queue in **Mnesia**, for use with the **Honeydew** job runner
- · Configured AWS EC2 instances for staging and production use, and set up Squid proxy servers for request caching
- · Processed 30,000+ users/day, generating insights on audience circles allowing for better campaign targeting
- · Led project updating multi-step form for clients to create campaign proposals, increasing amount of data collected from RFPs
- · Key Technologies: Elixir, Ruby on Rails, AWS EC2 & IAM, Postgres, Mongo

Nymi Inc Toronto, ON

SDK Developer

September - December 2018

- Developed 3-part async SDK supporting multiple Nymi Enabled Applications and Nymi bands, usable in any language supporting a C FFI
- Refactored processing of incoming messages using Serde
- Optimized **Phoenix** server communications to minimize latency in **Citrix** environments
- Consumed Windows APIs to support applications running locally with the Nymi Runtime on Citrix servers
- Key Technologies: Rust, Elixir + Phoenix, Windows APIs

Projects __

Personal Website September 2019

- Project data loaded from .ron files, dynamically creating routes
- · CI/CD done with the Github Actions beta
- Implemented in Rust using Rocket, and hosted using DigitalOcean

VSCode Syntax Theme August 2019

- Custom port of the Railscasts syntax theme
- · Per-language highlighting separated into multiple files for proper separation of concerns, and combined with a build script
- Published in the VSCode extension marketplace, with 10,000+ downloads

Ray Tracer December 2018

- Multiple cameras able to be arbitrarily positioned for every scene
- · Supports multi sample antialiasing (MSAA), and both Lambertian and specular reflecting surfaces
- · Able to capture and export scenes as PNGs
- · Implemented in Rust

CHIP-8 Emulator 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

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 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 Expected Completion Apr. 2022