

Marc Mailhot

Student Developer - University of Waterloo Computer Science

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Experience

Apple Inc.

Platform Architecture Intern, May 2017 - August 2017

- Contributed to the development of a high-performance, circuit level, hardware simulation compiler
- Designed and developed performance monitoring infrastructure to track compiler performance

Jane Street Europe

Developer Intern, Sept 2016 - Dec 2016

- Designed and developed a type inference and schema generation system to build queryable Postgres databases from untyped s-expressions
- Wrote performance-sensitive OCaml code handling and processing high volume message streams
- Rewrote distributed data analysis to use an efficient binary data format, resulting in 10x performance improvements

Kik Interactive

Web Developer (Co-op), Jan 2016 - Apr 2016

- Optimized a high volume messaging system in Python, leading to a 25% drop in request latency
- Was the primary designer and developer of a user facing chat bot
- Designed, wrote and documented an upcoming open source Python SDK for our API platform

Kik Interactive

Web Developer (Co-op), Apr 2015 - Aug 2015

- Reengineered core server side Python code handling >10M daily messages
- Built infrastructure for the handling of image and video content in a high-volume environment on the Google Cloud Platform

Projects

Dayder

2016

- Web-app for quickly finding spurious correlations among 390,000 datasets
- Developed a Rust backend efficiently finding correlations using a custom binary time series data protocol
- Designed and wrote CSS for the front-end design

Femto Chat

2016

- Built a prototype IRC Client in D in one weekend
- Developed a highly optimized IRC serialization and deserialization code using D templates

Newsmash

2015

- Implemented a Clojure web app and Chrome extension to provide groups of articles on the same topic through text analysis
- Designed a easy to use, visually appealing web interface
- Winner, IBM Prize, UofT Hacks 2015
- Winner, Intel Mashery Prize, UofT Hacks 2015

Education

University of Waterloo

Candidate for Bachelor of Computer Science, Sept 2014 - Present

- 4.0 Cumulative GPA
- 100% grade in two advanced level CS courses

About

Backend-focused full stack developer, with a special interest in programming languages, functional programming, compilers, systems architecture, distributed systems and natural language processing. Currently a 3A Computer Science student at the University of Waterloo and seeking a 4 month internship beginning in January 2018.

Skills

Languages

OCaml, Python, C++, Clojure, Haskell, HTML5, Javascript, C, D, Nix, CSS, SASS, C#, Dart, Rust, Racket, Java

Technologies

webapp2, Linux, Google Cloud Platform, PostgreSQL, Angular, Android, Docker, Node.js, Mercurial, Git, NixOS