

# Anthony Sandrin

<http://sandrin.me> - [anthony@sandrin.me](mailto:anthony@sandrin.me)

## Education

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### **The University of Waterloo - B.C.S. Candidate 2019**

- 4A Computer Science Co-op - 90.5% CAV - 3.86 GPA

## Experience

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### **Dropbox - Software Engineering Intern - Asynchronous Processing & Messaging Team**

San Francisco, CA - May-August 2017

- Improved reliability and tooling of a distributed real time event processing system
- Upgraded the service's internal throttling using a distributed rate limiting system

### **Yelp - Software Engineering Intern - Distributed Systems Team**

San Francisco, CA - August-December 2016

- Designed an algorithm to identify and distribute high-load topics across Kafka clusters
- Added features and made improvements to Python tools for managing Kafka clusters

### **NVIDIA - CUDA Software Engineering Intern - CUDA Libraries Team**

Santa Clara, CA - January-April 2016

- Implemented an efficient deconvolution kernel for the cuDNN deep learning library
- Added cuDNN RNN bindings to the Torch deep learning framework
- Improved CUDA kernel code for the cuFFT CUDA library

### **Primate Labs - Software Developer**

Toronto, ON - May-August 2015

- Used C++ and x86 assembly to develop and optimize CPU benchmarking workloads
- Programmed for GPGPUs using CUDA, OpenCL, and OpenGL

## Projects

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### **Spectacle**

- A path tracer implementing physically based rendering written in C++ - Available on Github

### **XKCD Widget**

- An Android home screen widget to display the latest XKCD comic - Available on Github

## Programming Skills

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C++ - C - Go - Java - Scala - Python - R - Apache Kafka - CUDA - OpenCL - OpenGL

## Areas of Interest & Proficiency

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Deep Learning - Distributed Systems - GPGPU Programming - Performance

[github.com/anthonysandrin](https://github.com/anthonysandrin) - [linkedin.com/in/anthonysandrin](https://linkedin.com/in/anthonysandrin)