JASON SINN

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EXPERIENCE

Data Engineer
AcuityAds

📅 May 2018 – Present   📍 Toronto, ON

- Designed data model to consolidate different types of third party video data and wrote Spark app to clean existing data and prepare it for use in new platform.
- Wrote data ingestion pipeline to populate a user segmentation store in Aerospike as a series of Spark jobs.
- Created a high-throughput, fully asynchronous web crawler and data handler using Akka, leveraging Kafka as an intermediary coordination layer.
- Implemented priority based scheduling for web crawler using Spark according to a number of different business rules.

Jr. Java Developer
AcuityAds

📅 Nov 2017 – Apr 2018   📍 Toronto, ON

- Implemented feature requests, exchange integrations and bug fixes for core real-time bidding platform, processing over 1,000,000 QPS according to the OpenRTB standard.
- Built RESTful services to provide access to various analytics with different SLAs.
- Created Zeppelin notebooks to analyze incoming inventory, and improved bidding patterns from 11 million non-winning bids per hour to 350,000 non-winning bids per hour for specific campaigns.

Research Assistant
ML Applications and Techniques Lab, University of Waterloo

📅 Sep 2016 – Aug 2017   📍 Waterloo, ON

- Augmented the Wide ResNet machine learning model to improve resilience against adversarial examples created by the fast gradient sign method under the guidance of Professor Pascal Poupart.
- Implemented the augmented model and matched state of the art accuracy on MNIST and CIFAR datasets.

3ds Max - Game Engine Developer
Autodesk

📅 Jan 2015 – Apr 2015   📍 Montreal, QC

- Created interfaces and pipelines for transformation of 3D architectural assets into game engine resources as a service.
- Implemented features, plugins, and interfaces for several products, including Autodesk Revit, Autodesk 3ds Max, and Autodesk Stingray.
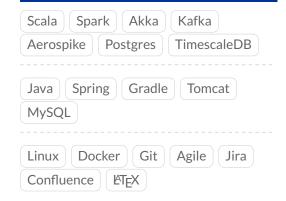
EDUCATION

B.Math, Computational Mathematics
University of Waterloo

📅 Grad. Aug 2017   📍 Waterloo, ON

- Algorithms
- Data Visualization
- Computational Linear Algebra
- Network Flow Theory

TECHNOLOGY

Scala   Spark   Akka   Kafka
Aerospike   Postgres   TimescaleDB

Java   Spring   Gradle   Tomcat
MySQL

Linux   Docker   Git   Agile   Jira
Confluence   LaTeX

OTHER

Software Developer
Fairfax Financial

📅 2015   📍 Morristown, NJ

Software Developer - BES10
BlackBerry

📅 2013-2014   📍 Waterloo, ON

Software Developer
Kira Talent

📅 2012   📍 Toronto, ON

RECREATION

Vice President & Instructor
University of Waterloo Breakers

📅 2013-2017   📍 Waterloo, ON

Rank #6 in Canada
World Rubik's Cube Association, Square-1

📅 2015