

# Ryan Serazin

## EXPERIENCE

JUNE 2016 – PRESENT

### **BookBub - Cambridge, MA**

*Full Stack/Backend Engineer (ads team)*

- Designed and implemented a project that improved the performance of our targeting bitset creation by 50% and the performance of our partner-facing estimated reach calculations by an order of magnitude by integrating a new datastore into our stack and writing a new data pipeline to use it.
- Enabled the launch of CPC ads on our CPM-based auction platform by writing code that estimated an ad's CTR using a method that sampled impressions and weighed their performance against the current market.
- Re-wrote our core auction service with senior new hire in clojure to enable auction time targeting.
- Maintained and was a core developer of a distributed rate limited per API data-fetching service written in clojure that returned book data in a common format.
- Trained new team on legacy ads platform after old team turned over, enabling large system rewrites and refactoring to be done with little user-facing impact.

SUMMER AND FALL 2015

### **Showcase IDX - Atlanta, GA**

*Software Engineering Co-Op*





- Responsible for Multiple Listing Service data pipeline that imported and cleaned data from over 60 MLS feeds and made over 5 million listing available to search using elasticsearch.
- Designed and implemented internal web tools in clojure/clojurescript that let members of our team quickly see the health of our data pipeline and MLS sources, quickly change feed specific information, write feed specific notes, add new MLS feeds, and customize per MLS feed data cleaning.

SUMMER 2014

### **TourBuzz - Atlanta, GA**

*Software Engineering Co-Op*

- Implemented a context-free grammar using clojure's instaparse library to convert dieselpoint queries into elasticsearch queries to support a legacy IDX product.
- Wrote a simple PHP app that both used the twilio API to route incoming support calls to an available service representative, and sent any relevant information on the customer to that representative on hipchat.

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## EDUCATION

2016 **Rochester Institute of Technology**  
B.S. IN COMPUTER SCIENCE  
*Minor in Philosophy*

## SIDE PROJECTS

- NOW **Traintunes**  
*uses MBTA train data to generate process music that changes volume based on train movement, and notes based on turnstile usage at stations.*
- '17 **Simple Book Recommender (BookBub Internal Hackathon)**  
*scored similar users in elasticsearch using a simple distance function of author, retailer, and region interests and recommended the most frequently bookmarked books among them weighted by distance.*
- '16 **Clojure wrapper for sun.misc.Unsafe**  
*written to play around with jvm allocation.*
- '15 **A Simple Lisp Interpreter**  
*written in rust, based on McCarthys original paper.*

## SKILLS

EXPERIENCED	Ruby, Clojure/ClojureScript, Javascript, Rails, Padrino/Sinatra, Solr, Postgresql, Redis, Vim, Git, GNU/Linux, OS X, DataDog, NewRelic
KNOWLEDGABLE	Terraform, Ansible, Python, Java, React, Alt, ElasticSearch, Redshift, Dynamodb, Athena / Spectrum, AWS
ACQUAINTED	Rust, C, Spark, EMR, R, C++, Php, Eclipse