Ryan Serazin

EXPERIENCE

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JUNE 2016 – PRESENT

BookBub - Cambridge, MA
Full Stack Engineer

- Prevented ad serving outages under time constraints by writing code to exclude frequency capped users from targeting bitsets at creation time.
- Designed and implemented a project that improved the performance of our ad 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 average.
- Maintained and implemented a distributed per API rate-limited data-fetching service written in clojure that returned book data in a common format.

SUMMER AND FALL 2015

Showcase IDX - Atlanta, GA
Software Engineering Co-Op

- Took over responsiblities for all Multiple Listing Service data, including importing and cleaning after sole full-time developer left to pursue his startup.
- Wrote internal web tools 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.
- Re-wrote our signup flow in React/ClojureScript as part of a larger effort to transition from Angular to React across the site.

SUMMER 2014

TourBuzz - Atlanta, GA
Software Engineering Co-Op

- Wrote a context-free grammer 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.

EDUCATION

2011 - 2016 | **Rochester Institute of Technology**
B.S. IN COMPUTER SCIENCE
Minor in Philosophy

SIDE PROJECTS

'18 **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

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