Alex **Riedler**

SENIOR SOFTWARE DEVELOPER

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Experience

Right Blue Labs (Avail)
Toronto

SENIOR FULL STACK ENGINEER — *Sept 2018 - Mar 2019*

- Worked on the Core application, using a combination of **Elixir, Phoenix, Vue**, and **JavaScript**
- Split application functionality into multiple sections (members, providers, admins) designed for large organizations
- Built out new onboarding front-end for organizations in **VueJS**

Influitive Inc
Toronto

SENIOR SOFTWARE DEVELOPER — *July 2017 - Feb 2018*

- Worked on Hanami (**Ruby**) based micro-services for chat and discussions
- Maintenance and Product support of Existing **Rails** monolith
- Performance optimization of **Sidekiq** jobs over 30 percent improvements of overall job throughput using same hardware
- Postgres Lock contention investigation and cleanup

VarageSale
Toronto

SENIOR SOFTWARE DEVELOPER — *Sept 2014 - June 2017*

Features
- Several large refactorings of Feed, Search, and User Permissions, including core business models and relationships
- Rebuild **Notifications** System as a service (serves over 10 million notifications a day)
- Avatar Service written in **Elixir** to support both Facebook and Custom User Avatars (High Throughput, over 70K RPM per box)
- Analytics Integration with Third Parties (MixPanel, Amplitude, Google, Segment) on Front-end and Back-end
- Analytics pipeline for user events and attribution analysis using **Kafka**, Secor, Google DataFlow, Google **BigQuery**
- N+1 Queries, Fetch Patterns, Caching (**Memcached** + Memory), Repeated Queries, Unnecessary Queries, Lock Contention
- Improve **ElasticSearch** Index for improved search and scalability (over 40% CPU reduction; resulting in less machines)

DevOps
- Write **Ansible** Playbooks for provisioning production systems
- **Docker**ize **Ruby** on Rails monolith for local development
- System Tweaking for decreased SSL Handshake times, improved loadbalancer latency, tcp keep-alive, and others
- Reduce **JavaScript** Compilation times from 3.5 minutes to less than one minute
- Discover and Patch Security Holes for PCI compliance; correct CSRF protection
- Diagnose various performance bottlenecks: **MySQL** indices missing, long running transactions, deadlocks, **Redis** contention
- Increase monitoring using Telegraf+InfluxDB+Grafana

Willet Inc / SecondFunnel
Vancouver

FULL-STACK DEVELOPER — *August 2013 - Sept 2014*

- Worked on core landing pages product
- Used gulp.js to build a more dynamic and fluid development cycle for front-end **JavaScript**
- Setup a full deployment and provision architecture in **Ansible** for **AWS**

500px
Toronto

BACKEND ENGINEER — *Sept 2012 - June 2013*

- Built a recommendation engine for photos based on user segmentation using **Python** and **GenSim**
- Security analysis and patching of main application (XSS, CSRF, **SQL** Injection)
- Built portfolios product from the ground up, including front-end **JavaScript** and back-end **Ruby on Rails**

Education

University of Waterloo
Canada

BACHELORS OF COMPUTER SCIENCE

- The big three computer sciences courses: Computer Graphics, Compiler Construction, and Real-time Programming.
- Particular interest in combinatorial optimization, graph theory, economics, and physics.