Artem Shnayder

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Core Skills

Java, Solr, Spring, Jetty, Tomcat, ActiveMQ, Tokyo Cabinet, MySQL, Maven, Ant, Jenkins/Hudson, Bash, Linux (Ubuntu, CentOS), Varnish, Graphite, StatsD, Nagios

Experience

Urban Airship (Push Notifications)   San Francisco, CA
Messaging Software Engineer   Jun '13 – Jun '14

- Coded the first production release of automated push notifications; a Kafka event stream is consumed and checked against user defined triggers in Cassandra; matched triggers are passed to the filtering and delivery modules via Protocol Buffers
- Built the CRUD management module from scratch; finished coding and productionised the ingress, filtering and delivery modules

Trulia (Real Estate Search)   San Francisco, CA
Software Engineer   Aug '11 – May '13

Instant Property Alerts Notification Engine
- Individually developed a scalable, concurrent reverse query search engine built on Solr in 5000 LOC by indexing users' saved searches and querying the index via new property listings
- Notification engine processes 30K listings daily to generate 2M alerts with latency of 250ms and bandwidth of 25 listings per second
- Led entire project from development to release without a dedicated project manager, coordinating responsibilities across several teams including email, mobile and QA

Search Infrastructure
- Doubled the Solr search infrastructure to 60 hosts with multiple index types of up to 200GB; it currently handles 600M requests daily with latency as low as 25ms
- Wrote a 1000 LOC cache purger for Varnish that purges more than one million objects daily
- Started Trulia's Graphite and StatsD architecture; wrote Perl metric senders for monitoring Solr and Linux (via iostat, mpstat, vmstat, etc.) that send 4K metrics per minute across 20 hosts
- Developed improvements for Trulia's search and indexing infrastructure, including Solr index creation (via Hadoop), custom index extraction and distribution, and Python scripts for safely importing MySQL data into Solr

FIX Flyer (Electronic Trading)   New York, NY
Software Engineer   Feb '10 – Aug '11

Message Adapter for major Mexican brokerages
- Built a low latency message translating and routing engine which handles 100K messages daily
- Wrote 18,000 LOC in Java to transform standard FIX protocol messages to and from the Mexican stock exchange (BMV) specification
- Designed a passive, transaction-based replication and persistence system using Tokyo Cabinet and Tervela middleware

FIX Message Monitor
- Rebuilt from scratch the admin web UI using JavaScript (Ext), REST, and Spring MVC, improving usability and decreasing maintenance effort
- Implemented a new user backend system, added LDAP authentication, wrote SQL supporting five database types

Live Gamer (Virtual Goods Marketplace)   New York, NY
Business Development Analyst   Summer '08

Pequot Ventures, now FirstMark Capital (Venture Capital)   New York, NY
Investment Analyst   Dec '07 – May '08

Education

Columbia University   New York, NY
B.S., Operations Research; Economics Minor; Computer Science Coursework   Sept '05 – May '09
3.61 GPA, with Honors; Tau Beta Pi (Engineering Honor Society)

Hobbies

Surfing at Ocean Beach, distance running, camping, trekking & learning guitar