

Reginald Tan
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Blog: redgetan.cc

Skills

Languages: Swift, Java, Javascript, Node.js, Ruby, C/C++, x86 Assembly
Back-end: Rails, Redis, Docker, AWS, MySQL, Elasticsearch
Tools: Android SDK, XCode, Cocoapods, gdb, Wireshark

Experience

Mobile Developer, Bard, Toronto, ON July 2016 - Present

- Built and published native iOS and Android apps and managed end-to-end testing and distribution
- Performed Bandwidth Optimizations on apps such as using LRU cache for frequently loaded mp4 and in-memory cache for API requests. Reduced server load via CDN and Memcache.
- Implemented Node.js/SQS Queue that segments, transcodes, normalizes videos into word-clips
- Tools: Swift 2.3, Realm, Alamofire, Firebase Real-time Database, Android SDK, Node.js, SQS

Software Contractor, Self-Employed, Toronto, ON Feb 2015 - Present

- Helping startups such as Cambridge Brain Sciences, StudeoHQ, MagicWand with software development using any tools that's necessary to get the job done.
- Tools: Ruby on Rails, Docker, AWS, Actionscript, HTML5 Canvas

Software Developer, Financeit, Toronto, ON Oct 2013 - Jan 2015

- Lead core development of \$40 million loan purchase facility integration with a Canadian Bank.
- Used GDB and Ruby C API to fix memory leak caused by frozen processes
- Collaborated with Sales, Operations, Marketing, Accounting teams to troubleshoot system failures, and improve key performance indicators such as loan approval % rates.
- Tools: Ruby, Javascript, C, jQuery, Coffeescript, Backbone.js, Stripe

Founder and Software Developer, Riversub.cc Dec 2012 - June 2013

- Built a responsive, mobile friendly platform that lets people watch crowdsourced subtitles
- Optimized client-side performance by using Chrome Devtools to find and fix CPU bound functions that block the UI Thread
- Decompiled Flash objects of 3rd party video sites to discover hidden APIs for controlling the player and wrote integration for them
- Tools: Elasticsearch, Backbone.js, Rails 3, EC2, ImageMagick, QUnit

Platform Developer, mDialog, Toronto, ON May 2011 - Dec 2011

- Developed features for a video streaming mediation platform serving 1M+ ad impressions/month.
- Read the HTTP Live Streaming RFC which allowed me to add codecs support in m3u8 playlist files for enhanced adaptive bitrate streaming capability.
- Learned Brightscript to debug playback, ad-serving, and streaming problems for Roku set-top box.
- Tools: Amazon S3, Akamai CDN, Roku Set-top Box, Ruby on Rails

Education

Concordia University, Graduate Program in Computer Science Sep 2012 - Aug 2013
University of Toronto, Bachelor of Commerce Sep 2008 - May 2011