Alexander Moore-Niemi

Software Engineer

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	TOTCOSTOTIAL	

- 2016 **Software Developer**, RAIZLABS, Boston.

 Building web APIs from scratch to serve custom built mobile apps.
- 2014 2016 **Software Engineer**, ZIPCAR, Boston. Focus on API design, research in hypermedia and REST. On call and release engineer.
 - 2016 "workerbee" project. A JRuby gem wrapping a Java microservices framework (using RabbitMQ as ESB).
 - 2016 "New platform" project: SOA implementation of microservices on PaaS via contributions to core inhouse framework and individual services. Mobile-first API design and implementation.
 - 2015 "Instant Drive" project: adding a new service and rebuilding parts of the core platform to support unlocking vehicles from our mobile phone app.
 - 2015 "Core API" project: transition away from shared models via gem to an ActiveResource-like pattern, loosening coupling to database. Preparatory work on monolithic architecture for decomposition into services.
 - 2014 "Pooling" project: extending "fleetsharing" with Avis cars while also improving vehicle availability. Required extensive redesign of original Zipcar data model, and was implemented as a Ruby on Rails API. Patented.
- 2013 2014 **Junior Software Engineer**, PROMOBOXX, Boston.

 Development on front end and back end services in Ruby on Rails and Javascript integration.
- 2012 2013 **Marketing Automation**, WORLDONE INTERACTIVE, Boston. Scripting and data analysis for the marketing team.
 - 2012 Used R for NLP to identify discussions in need of moderation. Patented use of NLP to identify physician discussions about pharmaceutical treatments.

Open Source

- graph_function a Ruby gem to generate graphs of asymptotic performance
- array_collapse a Ruby C extension to add Array#collapse, a method that allows blocks to be passed in to flatten
- proc_compose a Ruby C extension to add Proc#compose, a method for composing procs so that they can be passed in as a single block to any mapping operation
 - figtree a Ruby gem for parsing ini_files using parslet DSL

Keywords

Languages Ruby, Java, Groovy, Javascript, Swift, Haskell

Frameworks Rails, Grails, Sinatra, Backbone, Jekyll, Yesod

Practices TDD, SOA, Pair programming, Functional programming, Kanban, Scrum, Agile

Volunteering

2012 – Now **Transbucket.com**, *Web Developer*, Migrated site from PHP to Ruby on Rails and implemented many new features. The premiere site for transgender surgery photos,

with 85k users (1k active uniques per month).

Publications

2016 **Developer Testing: Building Quality into Software**, *Addison-Wesley Signature Series*, A sidebar on how to think about types as a way of extending design by contract.

Education

2012 **Certificate: Computation and Algorithms**, *MIT*, Boston.

2004–2009 BFA Media Production, Emerson College, Boston, Graduated with honors.