

**JOSEPH FRAMBACH**  
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(412) 865-7790, joe@framba.ch

## PROFICIENCIES

### Front-End Development

- › Foundations: HTML, CSS, Javascript; Attention to standards and specifications.
- › Libraries and Tools: jQuery, Underscore, Backbone, Require, d3, Handlebars, Mustache, Coffeescript.
- › Learning about: Angular, React (and Flux), Jasmine.

### Back-End Development

- › Node and its common modules: async, socket.io, Connect with and without Express.
- › PHP: Transitioning 5.2 to 5.3 and 5.4. Familiar with Composer, PHPUnit, and Selenium.
- › MySQL and its ilk (Postgres) and its antitheses (MongoDB and Redis).
- › Python and its computation modules: numpy, scipy, QSTK for computational investing.
- › Some frameworks like Wordpress and Rails, although I don't like to rely on them.
- › Other servers and proxies: nginx and HAProxy. For load balancing and checkout queueing.

## EXPERIENCE

### Trulia

September 2013 to Present

Software Engineer

Building and maintaining desktop, mobile, and restful API experiences.

Interviewing full-stack and senior candidates, focusing on javascript and MySQL.

Significant involvement in several consumer services:

- › Mortgage Rate Table: Affordability estimation and lender matching for home seekers.
- › User Preferences: Store arbitrary user preferences from input throughout the site.
- › Lender Rotation: Fairly distribute leads to several mortgage lenders.
- › Co-registration: Extensible framework to upsell simultaneous third-party leads.
- › Review Moderation: Hold, archive, and accept user-generated reviews.
- › Independent projects: PHP HBase bindings; Collaborative git conflict editor; Satis Composer repository.

### ShowClix

June 2010 to July 2013

Senior Software Engineer

Ticketing software for event organizers, and front-end checkout for customers.

Lead architect and developer for core administrative features:

- › Incentix: Use Facebook and Twitter API to give discounts with social promotion.
- › Embed and Facebook checkout: Embeds the purchase process into a website or Facebook page tab.
- › Merchandising: Product selling and fulfillment platform used by C2E2, Blue October, and others.
- › Product bundles: Groups tickets and products, with flexible pricing and reporting options.
- › Membership: Offers members-only tickets and discounts with client's external API.
- › Self-serve membership: Sellers may import membership lists into ShowClix-hosted MongoDB.
- › Questions: Sellers may ask questions to customers per-sale, per-event, and per-ticket.
- › Order fulfillment: Queues shippable orders, verifies tickets, and tracks shipping to customers.
- › BOCA thermal printing: Prints physical tickets using a BOCA printer, with collation options.
- › Email Outbox: Sellers may draft and send emails to customers using TinyMCE editor.
- › Stress testing: Uses Grinder and Linode API to replicate production and slam it with 50,000 users.
- › Local meetups: Assist in hosting local node.js meetups, and social recruiting event, Engibeering.

### United States Steel Corporation

May 2006 to June 2010

Business Services - Warehouse, Shipping, and Logistics

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## EDUCATION

### University of Pittsburgh

B.S., Applied Mathematics and Computer Science with Honors

Spring 2008

- › Shape Recognition and Classification Using Fourier Descriptors
  - Shows methods for shape recognition and classification, for searching a database of shapes.
  - Explores properties of shape analysis to develop Shape Signatures and Fourier Descriptors.
- › Question-Answering System using NLP for Google-hosted Competition
  - Python question-answering system analyzes text sources, generates and answers questions.
  - Pitt's three-member team entered CMU's competition, hosted by Google.
- › Lifespan Persistence through Numerical Analysis of Nonlinear Systems
  - Explains iterative methods for finding approximate solutions of systems of nonlinear equations.
  - Second place in Pitt CS Day poster competition.

M.S., Computer Science (Incomplete)

Fall 2008 - Spring 2012

- › Human-Computer Interfaces
  - Designed and built Arduino theremin using light sensor.
- › Data Visualization and Modeling
  - Used Ruby on Rails and flot to show inter-hospital MRSA levels.

## INTERESTS

### Professional Development and Personal Accomplishments

I am motivated by travel and adventuring. I enjoy couchsurfing and cycling in new cities, meeting interesting people, and thinking differently.

- › Toastmasters communication and leadership development, member. May 2014 - Present
- › Stripe Capture the Flag v2.0. Aug 2012
  - Web challenges: SQL injection, CSRF vulnerabilities, SHA1 padding
- › Backpacked the Appalachian Trail from Georgia to Maine. Summer 2008
- › Ran marathons in Chicago, Pikes Peak, Virginia Beach, Philadelphia, and Pittsburgh.
- › Bicycled from Pittsburgh to Washington, DC, and Pittsburgh to Lake Erie.
- › Competed and judged 24-hour Pitt Game Coding Competitions. 2007-2012
  - First place in inaugural competition, PyGame defense game.
- › TIME Magazine: Person of the Year 2006
  - “We're looking at an explosion of productivity and innovation, and it's just getting started.”
- › Boy Scouts of America: Eagle Scout Rank January 2004
  - Designed and built a 30-foot timber bridge which withstood Hurricane Ivan.