JOSEPH FRAMBACH

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PROFICIENCIES

Front-End Development

- · Foundations: HTML, CSS, Javascript; Attention to standards and specifications.
- · Libraries and Tools: jQuery, Underscore, Backbone, Require.
- Currently learning about: How to best prepare for es6. Building a faster user experience by minimizing time-to-interaction. Improving event feedback on mobile devices with Material design principles.

Back-End Development

- · Node and its common modules: async, socket.io, Connect with and without Express.
- · MySql and its antitheses, MongoDB and Redis.
- · PHP: Transitioning 5.2 to 5.3 to 5.4 to 5.5. Familiar with Composer, PHPUnit, and Selenium.
- · Python for its computation modules: numpy, scipy, QSTK for computational investing.
- · Some frameworks like Wordpress and Rails, although I don't like to rely on them.
- · Currently learning about: Django Rest Framework, Postgres, and AWS management.

Operations and Deployment

- · CI and Deployment: Currently using Jenkins. Experimenting with Vagrant and Docker. Previously used Fabric.
- · Servers and proxies: nginx and HAProxy for load balancing and traffic queueing.

EXPERIENCE

Trulia

September 2013 to Present

Senior 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:

- · Zillow integration: Post-merger data and widget sharing across very different systems.
- · Investment calculator: Tools to decide between selling your home and becoming a landlord.
- · **mWeb**: Node, Rendr, and Backbone isomorphic mobile site.
- · Pre-approval short form: Connect highly qualified leads to mortgage lenders.
- · 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

Senior Software Engineer

June 2010 to July 2013

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 & Facebook checkout: Embeds ShowClix into client website or Facebook page tab.
- · Merchandising: Product selling and fulfillment platform used by C2E2 and Blue October.
- · Product bundles: Groups tickets and merchandise, 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

- · Automated PDF report generation for inventory management and scheduling.
- · Automated PDF generation for bills of lading, truck freight paperwork, and internal mill needs.
- · Converted mainframe COBOL/AS400 programs into VB.NET web interfaces.
- · Supported older ASP and J2EE applications for multiple teams.

EDUCATION

University of Pittsburgh

Spring 2008

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

- · 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.

University of Pittsburgh

Fall 2008 - Spring 2012

M.S., Computer Science (Incomplete)

- · 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

· Toastmasters communication and leadership development, member. May 2014 - Present

· Stripe Capture the Flag v3.0.

Aug 2013

- Networking challenges: Distributed computing, Denial of Service protection.
- · Stripe Capture the Flag v2.0.

Aug 2012

- Web challenges: SQL injection, CSRF vulnerabilies, 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.