JOSEPH FRAMBACH

411 Noble St. Pittsburgh PA 15232
(412) 865-7790, joe@framba.ch

PROFICIENCIES

Back-End Development

There is no silver bullet. Right now I can hit the ground running with:

› PHP: Transitioning 5.2 to 5.3 and 5.4. Familiar with Composer, PHPUnit, and Selenium.
› MySql and its ilk: Postgres and Oracle PL/SQL. And its antitheses: MongoDB and Redis.
› Python and its computation modules: numpy, scipy, QSTK for computational investing.
› Some frameworks: Wordpress, Drupal, Rails, although I don't like to rely on them.
› Node and its common modules: async, socket.io, Express, Mongoose.
› Other servers and proxies: nginx and HAProxy. For load balancing and checkout queueing.

Front-End Development

Lists are for machines. Throw any technology at me and I'll do just fine.

› Foundations: HTML, CSS, javascript. I pay attention to standards and new toys.
› Abstractions: JQuery, HAML, SASS, coffeescript. Writing low level code is so 2000s.
› Applications: AJAX, Twitter Bootstrap, JQuery Templates.

Operating Systems and Software

› Most comfortable with a bash prompt on Debian.
› Prefer vim over emacs and git over hg.

EXPERIENCE

ShowClix, LLC., Pittsburgh, PA   June 2010 to Present
Senior Software Engineer
Lead architect and developer for core administrative features for event organizers, and front-end checkout process for customers. Assist in hosting local tech meetups for node.js and the ShowClix social recruiting event, Engibeering.

› 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.

United States Steel Corporation, Pittsburgh, PA   May 2006 to June 2010
Business Services Specialist I - Warehouse, Shipping, and Logistics

› Converted mainframe COBOL/AS400 programs into VB.NET web interfaces. These include inventory management, truck tracking and gate security applications, and scheduling reports.
› Supported older ASP and J2EE applications for multiple teams.

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EDUCATION

M.S. University of Pittsburgh   In progress
Computer Science

› 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.

B.S. University of Pittsburgh   Cum Laude, April 2008
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.

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.

› 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 currently judge 24-hour 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.