JOSEPH FRAMBACH

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I've worked in transportation/logistics, event ticketing, mortgage, and personal finance. It's a big world out there, so what's next? Healthcare is growing. Autonomous vehicles are moving. Smart appliances are getting smarter. Internationalization is connecting people. Where do I see myself in five years? Who knows! Let's find out!

EXPERIENCE

NerdWallet   May 2015 to April 2016

Senior Frontend Engineer

· **Credit Card Tool**: Reusable react components for redesign of credit card comparison tool.

· **Small Business and Personal Loans**: Onboarding and filtering interface.

· **Wordpress Shortcode UI**: Simple interface for content managers to edit blog mini-templates.

· **React Component Guide**: Shareable, hackable library of atomic react components.

· **Optisizely**: A visualization of how Optimizely tests affect page weight.

· **Reading Group**: The Innovator's Dilemma; team size and autonomy in hackathon projects.

· **On The Ball**: Stay on top of your finances through life milestones.

Trulia   September 2013 to May 2015

Senior Software Engineer

Full-stack developer on a small "New Ventures" team, exploring possibilities in mortgage search and streamlining the home buying process. Building and maintaining desktop, mobile, and API.

· **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   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 & 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

- · Mathematics in Industry: Explored methods for shape recognition and classification, for
    searching a database of shapes.
- · Carnegie Mellon University Question-Answering System Competition: Used NLP to analyze

text sources, generate and answer questions.

· "CS Day" Poster Competition: Explained iterative methods for finding approximate solutions of systems of nonlinear equations.

University of Pittsburgh   Fall 2008 - Spring 2012
M.S., Computer Science (Incomplete)

· Graduate coursework

   Operating Systems, Machine Learning, Compiler Design, Data Modeling and Visualization, Wide Area Networks, Human-Computer Interface Design and Evaluation, Algorithm Design.

· Projects

   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

· Backpacked 2,100 miles of the Pacific Crest Trail.   Summer 2016
· General Assembly inteview practice volunteer.   Spring 2016
· Toastmasters communication and leadership development, member.   May 2014 - Present
· Stripe Capture the Flag.
   - v3.0 Networking challenges: Distributed computing, Denial of Service.   Aug 2013
   - v2.0 Web challenges: SQL injection, CSRF vulnerabilies, SHA1 padding.   Aug 2012
· 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.
· 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.