

Summary of Strengths

- Seventeen years full-stack web development, fourteen years test-driven
- Personal and professional integrity
- Exceptional written, verbal, and visual communication skills
- Enthusiasm for learning and teaching
- Adaptability to change
- Amiable personality
- History of exceeding expectations
- Extremely versatile: object-oriented or functional, polyglot, UX and middleware and db

Manager of Software Development Comverge, Inc. December 2013 to present

Impact Too soon to tell.

Senior Software Engineer Mobilecause February 2012 to November 2013

Impact Fostered a culture of continuous improvement through honest and courageous communication, by speaking hard truths, and applauding when others did the same.

Emergent Design Refactored all outbound messaging, the core purpose of the software, into a delivery service without disrupting any existing message flows. Thanks to this layer of abstraction, only two weeks later we were able to easily improve throughput just in time for a customer's big campaign messaging over 330,000 numbers.

Introduced a command dispatcher and handlers for message processing.

Created a foundation for modularized html, css, and javascript which enabled migration of the existing UI from a home-grown CSS-soup to Bootstrap.

Refactored one particularly messy controller with just a handful of method extractions. A few weeks later those changes enabled a colleague to clarify the routing and models and complete the cleanup without me.

Scale Profiled outbound messaging performance and throughput. Identified garbage collection and IO as primary bottlenecks.

Threaded message delivery for an immediate twelvefold increase in SMS message throughput. Introduced retries and fallbacks to ensure message logging and persistence and expand the ability to identify and diagnose failures.

Enabled message workers to run under JRuby as a strategic move to open other performance opportunities via JVM based tools and languages.

Front-end Engineering	Streamlined unit testing of javascript front end code using Jasmine. Created dynamic and thoroughly customizable fundraising thermometer and pledge wall for use in high-profile gala events. Produced the SVG graphic for dynamic display and employed Ember.js for updates.
Methodology	Full-stack agile methodologies including continuous integration, full-time pair-programming, retrospectives, etc.

Aikido Instructor
University of Colorado Recreation Center
August 2005 to Present

Impact	Three students gave unsolicited feedback that my teaching changed their lives. Increased typical class enrollment by 50%. Inspired many students to join Boulder Aikikai.
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Independent Contractor
Presilient
November 2011 to January 2012

Integrating Legacy System	Client had a significant investment in an existing J2EE application running in JBoss 4 with a complex authentication scheme and heavy reliance on MSSQL stored procedures. Created a thin RESTful JSON API to wrap the existing stored procedures. By running the Rails 3 app under JRuby, saved the client from a complete re-write of their authentication system and enabled the use of battle-tested JDBC drivers for MSSQL.
Front-end engineering	Created a light front-end framework against the JSON API for their service request portal using Bootstrap and Backbone.js. Test-drove all front-end code using Jasmine.

Software Engineer
Pivotal Labs
November 2010 to September 2011

Impact	Initiated an informal usability analysis for Groupon's editorial tools via direct observation of editors and deal creators. Consequently created dramatic improvements in deal creation and editorial workflows. Streamlined communications between sales and editorial teams by integrating with Salesforce.
Learning	Mastered Ruby within a month. Immediately effective maintaining and updating existing Rails application for Groupon Merchant Center team.
Scale	Refactored Groupon's merchant analytics into an independent service-oriented architecture. Improved largest deal analytics reports from a query time of 7 minutes down to 15 seconds.
Methodology	Full-time pair-programming, behavior-driven design (BDD), continuous

integration, collective ownership, small releases, planning game, retrospectives, on-site customer.

Consultant
bivio Software, Inc.
December 2003 to May 2010

Impact	<p>Changed the company culture: Testing became a core value. Extended internal unit testing framework to simplify testing core business logic. Number of test files grew from 85 to 585 or 20% to 60% coverage.</p> <p>Drove successful adoption of XHTML and CSS for web interfaces, and wikis and blogs for content management, both internally and for bivio's customers.</p>
Learning	<p>In order to build a python interface to a C++ scientific visualization toolkit, learned on demand the toolkit's API, C++, Qt, PyQt, OpenGL, PyOpenGL, NumPy, python distutils, SIP, and GNU autotools.</p> <p>Kept pace with bOP, an extremely complex and abstract web framework under continual evolution: The framework grew from 390 classes to 900+ through 720 releases with a median days-between-release of 1.</p>
Teaching	<p>Trained programmers with wildly diverse levels of experience from high-school student interns with no previous programming experience to veteran C++ and Java developers with decades of experience.</p> <p>Trained customer support staff in investment club accounting software, managing customer expectations, and in the use of CRM systems. Most of the training was by teleconference or online via WebEx or GoToMeeting.</p> <p>Lead a three-day bOP training course for a client's entire development team whose programming skills ranged from systems administrators to senior embedded systems programmers. Also created the overall training plan and most of the supporting documentation. Received strong positive feedback from all participants.</p>
Client Impact	<p>Saved face for the company when the president forgot a meeting with the biggest client. Took his place offering valuable contributions around complex design and security issues. Client was seriously impressed with my ability to step in unprepared and to turn a potential train wreck into a productive meeting.</p>
Complexity	<p>Maintained and extended applications in diverse and complex domains including a state-wide insurance accounting system, a non-profit grant application system, a formal balloting system for industry standards, an alumni association membership system, and an investment club tax accounting system.</p>

Research Assistant
University of Toronto, University of Siena
August 1990 to May 1991 and January 1992 to June 1992

Illustration and	<p>Created unique visual aids for education and research. Illustrated fundamental concepts and created original animated analyses of pivotal diagrams of</p>
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animation Renaissance perspective by Alberti, Leonardo da Vinci, Piero della Francesca and others.

A very long time ago, but still some of my favorite work.

Third Degree Black Belt
Boulder Aikikai, Aikido Schools of Ueshiba
May 2013

Bachelor's of Environmental Design, emphasizing computer methods in design
College of Architecture and Planning, University of Colorado at Boulder
May 1994

Technical Skills
(aka. buzzword compliance ;-)

Languages	Ruby Coffeescript JavaScript Perl SQL Python bash a little Scala, C++, PHP, and Common Lisp
Markup	HTML5 XML YAML CSS
Web frameworks	Rails Sinatra bOP Struts Turbine a little Django and Node.js CGI (the simplest framework that can possibly work ;-)
Databases	PostgreSQL MySQL Oracle
Practices	Test-driven development (TDD) Behavior-driven development (BDD) Pair programming DRY Full-stack Extreme Programming
Networking	TCP/IP routing, addressing, subnetting NAT DNS firewalls routers ethernet hubs and switches
Graphic design	digital photography image processing illustration page layout 3D modeling rendering animation

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