

# Paul A. Jungwirth

11355 NW Reeves St.  
Portland, OR 97229

pj@illuminatedcomputing.com  
503 928-0356

## I CAN

- Listen to the customer, clarify their wishes, and discover hidden requirements.
- Lead software teams (so far, up to 4 other developers).
- Coordinate IT, creative staff, programmers, and management across multiple companies.
- Write clear specifications and proposals, whether brief (1 page) or elaborate (200 pages).
- Accurately estimate projects (so far, up to \$250,000 over 3 months for 3 developers).
- Architect cloud-based solutions for scalability and high availability.
- Conduct accurate capacity planning to maximize server ROI.
- Implement monitoring and automated configuration/deployment for high uptime and easy maintenance.
- Juggle competing priorities.
- Work productively with little supervision.
- Manage customer expectations.
- Argue a point and concede cheerfully if a team chooses something else.
- Design intuitive user interfaces.
- Design normalized and efficient database schemas, tune database settings, and fix slow queries.
- Design stable class interfaces to ease team-based software development.
- Judge when to build for tomorrow and when to build for now, when to abstract and when to code the thing itself.
- Track down difficult bugs with patience and not superstition.
- Package software so it is easy to install and deploy.
- Document the big picture and the hidden assumptions in code.
- Write flexible, penetrating tests to ensure correctness and cover edge cases.
- Choose an appropriate technology/platform for a given problem.
- Find existing libraries to avoid Not Invented Here syndrome.

## I KNOW

<b>Primary Languages</b>	Ruby, Javascript, Java, Perl, Python, Bash, SQL
<b>Secondary Languages</b>	C, R, PHP, PL/SQL, Objective C (iOS), Visual Basic
<b>Tertiary Languages*</b>	Lua, Lisp, Scheme, Prolog, Octave, C++, MIPS Assembly, Pascal
<b>Ruby Stack</b>	Ruby on Rails, Haml, Sass, Phusion Passenger, Unicorn, Innumerable gems
<b>Java Stack</b>	Hibernate, J2EE, Tomcat, JSP, Struts, Tapestry, Spring
<b>Front end</b>	jQuery, Angular.js, Backbone.js, Underscore.js, Optimization
<b>Scalability</b>	Load-Balancing, Database Replication, Failover, Share-Nothing Architecture
<b>AWS</b>	EC2, VPC, Cloud Formation, OpsWorks, Kinesis
<b>DevOps</b>	Chef, Capistrano, Graphite, StatsD, Nagios, Monit, God, Apache, Nginx
<b>Social Media</b>	Integration with Facebook, Twitter, Google, LinkedIn, Wordpress
<b>RDBMSes</b>	PostgreSQL, MySQL, Oracle, MS Access, FileMaker Pro, OLTP vs OLAP
<b>NoSQL</b>	Redis, MongoDB, Memcached
<b>Testing</b>	RSpec, Capybara, Jasmine, JUnit, HttpUnit, Cactus*, JMeter*
<b>Source Code Control</b>	Git, Github, Subversion, CVS, Clearcase*, RCS, Scmbug
<b>J2EE</b>	EJB, JBoss, Websphere*, XDoclet, Web Services
<b>Credit Cards</b>	Stripe, PayPal, Cybercash, Payflo Pro
<b>XML</b>	SAX, DOM, XSLT, XPath, FO, XSD, DTD, namespaces, XMLRPC, SOAP, WSDL
<b>Print</b>	Prawn, Poi, L <sup>A</sup> T <sub>E</sub> X, FrameMaker, QuarkXPress, Illustrator, Photoshop, Distiller
<b>Net</b>	DNS, FTP, SMTP, snoop, tcpdump, iptables, ipchains, ssh, rsync, DHCP
<b>Miscellaneous</b>	Unicode, Remind, Gnuplot, X11, GPG, JSON, YAML, Markdown

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\*Limited Experience

## I HAVE DONE

### Open Source Contributor

- Authored: db\_leftovers, Chef PostGIS cookbook, Launch4j Maven Plugin, ByeGmail Firefox Plugin, others.
- Contributed to: Ruby on Rails, Postgres, jQuery UI, Chef, Devise, Geocoder, others.
- Reported bugs for: rvm, acts-as-taggable-on, best\_in\_place, Maven, others.
- StackOverflow contributor with reputation of 11,665 as of 10 April 2017.

### President

*Illuminated Computing Inc., illuminatedcomputing.com*

*March 2006–present*

- Developed rich, highly-scalable web & mobile applications for startups and online businesses.
- Took over and rescued several off-track projects by excellent client service.
- Built reputation for responsiveness, good listening, honesty, and concern for the client's best interests.
- Led distributed development teams to increase productivity and lower costs.

### Founder & CTO

*ElectNext, Inc., Philadelphia, PA*

*February 2011–March 2012*

- Led product design and development for a web application to help voters find the best candidates.
- Designed Machine Learning algorithms to profile thousands of candidates based on millions of data points.
- Designed gamified system to crowd-source data on candidates and political issues.
- Accepted to DreamIt, Wharton Venture Initiation Program, and GoodCompany accelerator programs.
- Helped raise over \$100,000 in angel investments.

### Software Engineer

*Banta Integrated Media: Internet Solutions, Cambridge, MA*

*September 2002–August 2005*

- Tech lead on several websites; programmed and directed other developers for up to a dozen at once.
- Responsible for everything from requirements gathering to design to implementation to launch to support.
- Negotiated and coordinated between IT, the customer, and other developers.
- Won more revenue by proposing projects that helped our customers.

## I HAVE STUDIED

### Greek, Latin, Distributed Computing, Machine Learning, Other Topics

*Harvard Extension School, Cambridge, MA*

*1994, 2001–2005*

*Coursera (faculty from Stanford & TCS), online*

*2012*

### M.A. in Classical Studies

*University of Pennsylvania, Philadelphia, PA*

*2007–2011*

- Robert A. Fox Presidential Prize Fellow.
- Taught four semesters of Latin & Ancient Mythology.

### B.A. in English Literature

*Willamette University, Salem, OR*

*1995–1999*

- Tested out of Intro to Programming.
- Took Data Structures & Algorithms, Programming Languages, Machine Organization.
- Minored in mathematics; gave an extra-curricular talk on Gödel's Incompleteness Theorem.
- National Merit Scholar; Magna cum laude; Phi Beta Kappa.

### Other

- Eagle Scout.
- California Boys' State.
- High School & College Speech & Debate.
- GRE: 800 verbal, 790 math, 5.5 writing, taken October 2007.
- Active member of PDXRuby and Portland tech start-up scene.
- Have given talks on jQuery, ActiveRecord, Node.js, iOS, and web architecture for business people.