**Gregory d. Shapiro**

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| Experience | |
|  | **NGP VAN, Inc** Somerville, MA, *Technical Team Lead* 11/2011 - Present   1. I currently lead a geographically dispersed team of software engineers, frontend specialists, and QA automation engineers in an agile scrum environment. As the technical lead I am ultimately responsible for making sure we produce fast iterations of product features and technical improvements, meanwhile creating well architected code that is as extensible and bug free as is practical. 2. Negotiating with our product team, support, and other stakeholders, I work to determine minimum viable products that satisfy our most important user stories. Sometimes this means finding a way for clients to satisfy their needs using existing features, sometimes it means building something small that solves the most important 80% of user stories, and sometimes it means breaking a necessarily large project into small chunks that we can constantly deliver. 3. Oversee peer code reviews to make sure we’re producing solid new code, and improving old code. I also plan so that our new feature work has time built in for code refactoring and learning new technology 4. Protect the momentum of my team by planning around blockages, rejecting scope creep, appropriately prioritizing production incidents, and providing a line of defense between the team and any unplanned work 5. Provide architectural direction and rapid prototypes for long term projects 6. As a proponent of using D3 + AngularJs for visualizations, I shipped the first such visualization in Votebuilder, our main product. A Sankey diagram for voter registration progress, it was adapted from one of my internal hackathon projects. 7. Instruct on Git workflow, ensuring kosher source control history and solving problems for my team and others 8. Work with team members to determine individual growth goals and regularly check in on these to ensure progress and team morale 9. Analyze usage of existing product features to help inform and prioritize new feature work 10. Analyzed usage patterns and error logs to predict when our upstream vendors and partners would have capacity issues during peak election times.   **Sino Investments**, Detroit, MI, *Co-Founder, Technical Director* 10/2010 - 9/2011   1. Created financial model supporting $1.2 million microbrewery expansion: modeled expansion effects including changes to labor allocation, equipment depreciation, distribution of sales across 120 beer varieties, material costs and financing costs, leading to comprehensive pro forma balance sheet, income statement, and statement of cash flows 2. Interfaced with clients to translate business and industry knowledge into financial model design specifications 3. Responsible for internal technical operations as well as technical problem-solving for clients: internal and external financial projections, crm system, time tracking, project budgeting, website design and hosting, email, file sharing 4. Signed memorandum of understanding with 4.7 Billion RMB development project in Guangzhou, China   **IBM OpenPages** (then OpenPages, Inc.), Waltham, MA, *Software Engineering* 7/2010 - 12/2010   1. Architected and coded a java desktop app to aid multinational companies in global IT risk management planning 2. Helped make OpenPages the first in their industry to provide a quick and powerful way to build a set of compliance guidelines based on Unified Compliance Framework data. The UCF data consisted of 25k+ pieces of regulation and industry guidance, and customers used the tool to find pieces relevant their business, de-dupe similar articles, and easily import the final results into 3. Applied streaming XML parsing, multi-threading, and indexing to maximize UI responsiveness while managing memory use 4. Used Apache POI to export results to .xls for a matrix view of the selected data, and to OpenPages proprietary excel format for important complex object heirarchies 5. Created and performed testing plans for OpenPages JSP modules, created testing plan and testing tools for IT risk application   **Econometric Analysis of Chinese Character Learning on Skritter.com** *(Senior Research Project)* 2/2010 - 6/2010   1. Modeled the probability that a learner will forget a character at a certain time after review 2. Analyzed over 15 million data points from 3,000+ learners, using 30+ key learner characteristic as variables 3. Designed and coded a web dashboard (php, jQuery, JavaScript, HTML, CSS), database (mySQL), export scripts (PHP, SQL), and econometric software scripting (STATA) to support research and analysis 4. Identified inconsistency in core product algorithm results, showing opportunity for enhanced learner productivity   **Belltower Books,** Washington, DC, *Campus Associate*  4/2009 – 12/2009   1. Created a web-based tool to collect and analyze data from course book lists, class schedule, and final exam dates 2. Analyzed data to determine the most productive buying opportunities based on book price, class size, demographics, and exam date; applied analysis to personally achieve top commission tier by volume   **Culture Gateway**, Beijing, China, *Interim Managing Director* 7/2007 - 9/2007   1. Ran marketing drive that secured favorable contracts for 12 teachers at the state-owned firm FESCO, and at China’s largest private school, New Oriental 2. Resolved employment, housing, arrival, visa, and police registration difficulties for inaugural participants   **My Big School** 我的大学, Beijing, China, *User Interface and Design Consultant* 7/2007 - 8/2007   1. Led a team of Chinese professionals to overhaul product design and marketing for a distance learning system 2. Advised the CEO of My Big School on Western design and user interface principles |
| Education | |
|  | **George Washington University,** BA with double major: *Computer Science, Economics* Cumulative GPA: 3.28 5/2010   * Awarded and maintained merit-based full tuition scholarship, total value $144,000+ |
| SKills | |
|  | **Programming Languages**: C#, SQL, JavaScript, VB.Net, Java, Python, HTML+CSS  **Web Technology**: .Net MVC, Web API and Web Forms, RESTful API design, D3.js AngularJs, JSON, MS Azure  **Software**: Git, Curl, Bash terminal, MS Excel, MS Visual Studio, Matlab, Eclipse, TeamCity  **Collaboration Tools:** Jira, Github, Hipchat  **Analytic**: Econometrics, Machine Learning (on the way, currently enrolled in coursera ml class), Data visualization  **Languages:** Mandarin Chinese – advanced written and spoken proficiency (Self Studied) |
| Community | |
|  | **Cambridge School Volunteers**: Tutor comp sci, math, ESL and other subjects at Cambridge Rindge & Latin  **Carrol Center for the Blind/Courageous Sailing Center**: Sighted guide for blind sailboat racing |