Jose Ibarra

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Qualifications

- 8 years of Java experience; 3 years of Javascript experience; 2 years of C++ experience.
- 1.5 years of data visualization research experience.
- Developed mainframe and Java applications to manage part logistics, orders, and inventory for General Motors.
- Developed mobile applications for Sandia National Labs.
- Developed smaller applications in free time and for hackathons, including augmented reality resource finder app, calendar and vehicle scheduling app, and autonomous vehicle scheduling app.

Project & Development Experience House Repository for Every Part (HREP) - General Motors: Internal Project May 2017 -• Rewrite of existing Access application in the Spring MVC framework and a custom jQuery Present framework. Created and maintained CI/CD system which greatly reduced deployment and defect detection • times; combined Gradle, Jenkins, CA Release Automation, Junit, and Selenium. Designed Selenium framework to improve test creation for Kendo Grid pages which reduced test creation time from several days to just one day. • Mentored several junior developers including integrating testers into the development team. Material Global Optimization (MGO) - General Motors: Internal Project June 2015 – • Monolithic, 24/7 supply chain system that manages the planning, ordering, and scheduling for Present parts and shipping in manufacturing plants, managing billions of dollars of supply. • Developed backend modules to do a majority of business logic; used frontend (JSP, JS, jQuery), backend (Java), mainframe technologies (PL/I and COBOL). · Improved mainframe unit testing framework utilizing Junit which shifted unit testing from mostly manual to mostly automated, significantly reducing retest time. • Led proof of concept for upgrading Struts 1 to Struts 2 and improved existing estimates by 35%. • Technical leader for a Struts 1 to SpringMVC conversion project. • Improved existing and created new Struts 1 conversion tools to lower file conversion time by 20%. Developed a proof of concept mobile application utilizing Angular.js which was expected to improve plant worker productivity through a simple UI. • Trained 20 new hires in Java and SpringMVC skill to onboard them quickly for a Struts 1 to SpringMVC conversion project. Geo-Genealogy and Geo-Demographics Data Visualization Research - VADER Research Lab: Aug. 2013 – https://doi.org/10.2312/eurova.20141143, https://demo.vaderlab.org/name/ May 2014 • Application displayed a heatmap of surname density for the United States and the income distribution for that surname in a web application utilizing JS, jQuery, D3.js and Java web services. Mined over 60 million data records from US phonebooks and correlated to zip code-based US Census records; stored data and mining results in MySQL and MongoDB. Preprocessed surname maps and income distributions that reduced server processing and improved response times from several minutes to several seconds. · Developed multi-threaded data preprocessing methods which processed surname data independently and improved processing capability by factor of 5. SNL Conference Room Scheduler - Sandia National Labs: Internal Project May 2013 -• Modernized webpage based scheduling application by designing a map-based, visual iOS app that May 2014 reduced conference room scheduling time by 10-20%; integrated ArcGIS, Objective-C, Java. • Constructed Java web services to query SQL servers for needed data. • Designed user interface using Apple's UI Framework and the ArcGIS framework. **Publications** What's In a Name? Data Linkage, Demography and Visual Analytics - EuroVis Workshop on June 2014 Visual Analytics 2014: Wang F., Ibarra J., Adnan M., Longley P., Maciejewski R. https://doi.org/10.2312/eurova.20141143, https://demo.vaderlab.org/name/

Education

Computer Science, M.C.S. - Arizona State University, Tempe, AZ • Overall GPA: 3.70 Jan. 2015 – Aug. 2018

 Computer Science (Software Engineering), B.S. Honors Diploma - Arizona State University, Tempe, AZ Overall GPA: 3.78, CS GPA: 4.00, Magna Cum Laude Honors Thesis: Visual Analytic Tools for Geo-Genealogy and Geo-Demographics 	Aug. 2010 – May 2014
Work Experience	
Software Developer - General Motors: Chandler, AZ	June 2014 –
 Developed the Material Global Optimization and House Repository for Every Part projects. Continually rated exceeds expectations in yearly performance reviews. 	Present
• Trained in Java and mainframe technologies to be able to develop for the full application stack.	
 Participated and won multiple hackathons for General Motors employees. Applications included an autonomous vehicle scheduling app (Node.js & Android), an augmented reality resource finder app (Node.js & Android), and a car scheduling app synced with user calendars (Java & Android). Managed development team meetings to keep up to date with architecture changes and new technologies, including new development tools (Upsource, Jenkins) and new development frameworks (Angular.js). 	
Undergraduate Technical Intern - Sandia National Labs: Albuquerque, NM	May 2013 –
Developed the SNL Conference Room Scheduler and SNL Building Search projects.	June 2014
Undergraduate Research Assistant - Arizona State University: Tempe, AZ	Jan. 2013 –
 Researched and developed the Geo-Genealogy and Geo-Demographics Research and Linked Animal-Human Health Visual Analytics Research projects. 	May 2014

- Strengths
 Programming Languages –Java, Javascript, Python, PL/I, COBOL
 Frameworks & Libraries jQuery, Spring MVC, Android
 Programs and Tools –IntelliJ, Gradle, Vim, Git, Junit, Selenium, Jenkins