

Ian Ferguson

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EXPERIENCE

Chief Technology Officer

O'Malley For President, Baltimore, MD – May 2015 - Present

- Directed data, analytics and technology efforts across all departments of a Presidential campaign.
- Analyzed performance of online advertisements and provided strategic advice based on said analysis.
- Automated daily reporting generation and subsequent distribution to stakeholders.
- Integrated multiple platforms from different vendors to facilitate more holistic reporting and analysis.
- Partnered with staff from multiple departments to gather requirements, prioritize and execute projects from start to end.

Founder/Freelance Software Engineer

Lab Marie, Washington, DC – September 2014 - May 2015

- Worked with clients to deliver both new software development and operational support
- Reviewed work submitted to projects by subcontractors
- Maintained continuous integration server utilized by other contractors on projects
- Delivered products to meet client deadlines and requirements
- Provided time and cost estimates to interested prospective clients

Senior Software Engineer

OnDeck, Arlington, VA – September 2013 - September 2014

- Implemented internal API platform and client using Java, Jersey, Jackson, and Guice.
- Gathered requirements from stakeholders for a new product aiming to replace internal Salesforce usage.
- Mentored junior members of the team through both formal code reviews and informal conversation/ad-hoc feedback.
- Coordinated with DevOps team to acquire necessary assets and access to launch new product to production environment.
- Utilized Jenkins continuous integration system to ensure code and test quality was maintained on every commit.
- Created fully automated deployment scripts for multi-node application environment.
- Maintained greater than 98% unit test coverage on project.

Software Engineer & Team Lead

Catalist, Washington, DC – December 2012 - August 2013

- Led technical development for web based ETL application, utilizing Java, MyBatis and Google Web Toolkit.
- Coordinated with project stakeholders on the design and customer experience for new features added to applications.
- Managed and scheduled development tasks using agile/scrum methodology.
- Integrated applications with other technical teams to deliver performance and feature benefits to customers.
- Reviewed and approved code changes from other developers for multiple code bases within the company.
- Developed and maintained a shared library for large scale asynchronous data stream processing.
- Maintained automated build, code coverage and testing tools for application using Jenkins.
- Restructured legacy code to be more easily maintained and reused for future projects.

National Regional Data Director for the Mid Atlantic, Great Lakes & Northeast

Obama for America, Chicago, IL – February 2012 - November 2012

- Developed reports and presentations to inform leadership decisions and resource allocations.
- Supported data and analytics programs and staff in five battleground and thirteen border states.
- Communicated with multiple vendors to resolve issues with technical systems as they arose.
- Responsible for the targeting and management of over five million phone calls placed into Ohio in last week of the election.
- Triaged state and national level data, analytical and technical issues to deliver solutions in a timely manner.

Software Engineer

Catalist, Washington, DC – November 2010 - February 2012

- Designed system for flexibly integrating data from multiple changing sources into production databases.
- Architected business critical data back end and processing service to achieve gains in speed, capacity and redundancy.
- Implemented report generation framework for dynamically analyzing data sets.
- Optimized and parallelized extract, transform and load processes to increase data processing speed.

- Maintained and improved custom Java, Shell and SQL scripts and software used for data ETL process.
- Created, analyzed and maintained databases with over 500 million records.

Data Acquisition Specialist

Catalist, Washington, DC – August 2010 - November 2010

- Processed and normalized data from multiple sources using Talend Data Integration Suite.
- Resolved data quality issues using Microsoft Excel, SQL Queries, and various Unix programs.
- Partnered with state officials and third-party vendors to ensure delivery of required data.
- Generated, analyzed and presented reports to improve data quality control processes.

Information Technology Infrastructure Technician

Guilford College Information Technology, Greensboro, NC – January 2009 - July 2010

- Configured and deployed computer systems across the college campus.
- Researched and implemented updates to campus networking equipment.
- Documented implementations and solutions of network and systems problems.
- Implemented remote configuration, management and notification solution for network uninterruptible power supplies.

Field Organizer

Obama for America, Tappahannock, VA – June 2008 - November 2008

- Led grassroots voter contact organization in five counties to elect Barack Obama for President.
- Analyzed data to allow for most efficient use of volunteers and resources in key precincts.
- Organized a broad volunteer base in a traditionally Republican area of rural Virginia.
- Executed field plan to meet voter contact and volunteer goals laid out by the State Field Director.
- Coordinated organizational meetings with over two hundred volunteers to develop effective local outreach plans.

Information Technology Help Desk Technician

Guilford College Information Technology, Greensboro, NC – September 2007 - May 2008

- Documented technical and computer issues using electronic ticketing system.
- Resolved technical issues in equipment and user software across a variety of technologies.
- Instructed users how to use computer equipment and software.
- Standardized storage procedures for media and computer equipment.

SKILLS

- Languages: Java (Expert), Go (Some), HTML/CSS (Some), JavaScript (Some),
- Java Application Development: Guice, MyBatis, GWT, DropWizard, Jersey, Jackson, Guava, BoneCP, C3P0, Spring, JodaTime, slf4j/logback, Jetty, Tomcat, Maven, other common libraries,
- Platforms: Linux (CentOS & Ubuntu), Amazon Web Services, OS X,
- Databases: PostgreSQL, Redshift, Vertica, MySQL, Oracle,
- Development Tools: git, Jenkins, Travis CI, Wercker, Eclipse, vim, Jenkins/Hudson, Maven, tmux, Fish Shell,

EDUCATION

Bachelor of Science, Computing Information & Technology.

Guilford College, Greensboro, NC