

# Ian Shelton

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ianshelt@gmail.com | 407-802-6643 | [ianmshelton.com/blog](http://ianmshelton.com/blog)

## Technical Skills

- Languages: SQL, VBA, R, Python, JavaScript
- Data Analysis Tools: Tableau, Microsoft Excel, Stata, XLMiner
- Miscellaneous: Git, Jira, PivotalTracker

## Experience

### The Home Depot

Senior Analyst – Business Intelligence

Analyst – Business Intelligence

January 2017-Present

January 2015-January 2017

- Data Mining
  - Unsupervised Attachment Analysis
    - Implemented unsupervised Apriori algorithm against approximately 25 million transactions to generate attachment rules for most frequently purchased item sets
    - Enhanced algorithm by utilizing product attribute data to identify most interesting attachment rules
  - Ad Hoc Attachment Analysis
    - Developed attachment analysis with location, time, and product attribute data (capable of analyzing over 1.3 billion transactions) to help optimize product assortment and space planning decisions
    - Helped organization understand product attachment methodology by emphasizing causality
- Data Analysis
  - Analyzed query performance data to determine how new features impact user experience
  - Utilized R text mining package to analyze support emails to identify opportunities for simplifying financial applications
  - Conducted analysis on enterprise transaction tables to develop methodology that accurately determines the dominant tender for each transaction
  - Analyzed receipt data to develop methodology to restate historical receipt values for freight receipt decomposition
- Development
  - Utilized python to develop application that modifies underlying Tableau XML, allowing users to programmatically update dashboard titles, resize layout containers, and add worksheets
  - Developed Tableau Mobile Sales Dashboards by leveraging Google BigQuery and the Tableau JavaScript API
  - Wrote VBA code to modify Pivot Table data across Excel Workbooks

## Education

Master of Science, Major in Information Systems

University of Florida

Bachelor of Science in Business Administration, Major in Finance

University of Florida

Passed Society of Actuaries Probability Exam (2011)