mtam2.github.io

Maxim Tam

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Technical Skills

- Languages: Python, Java, Ruby (Rails & Sinatra), BASH, PowerShell, JavaScript, HTML5/CSS
- Databases: Oracle Database 11g, MySQL, PostgreSQL, MSSQL
- Methodologies: Agile, Waterfall, Object-Oriented, MVC

Projects

- Generic File Monitor
  - Extracted historic metadata from various Windows Servers using scheduled PowerShell scripts
  - Used Pandas DataFrames to clean and extract relevant time stamps and file size
  - Analyzed historic metadata using a Isolated Forest algorithm in Python to detect anomalies
  - Displayed visualization and notification using Highcharts and a rudimentary Flask server
- Social Media Data Analysis with Hadoop Cluster
  - Revived 4 decommissioned desktops to install Ubuntu Server, Hadoop, and Cloudera Manager
  - Cleaned and extracted relevant social media data using Natural Learning Toolkit (NLTK)
  - Utilized a NaiveBayesClassifier to categorized data to identifying specific customers comments
- Ctrl-Cloud
  - Multi-platform (Android, Web, Windows) integration with Ruby on Rails Backend
  - Developed RESTful API to utilized JSON parsers for multi-platform access
  - Deployed to Heroku, Chrome Play and Extension Store, Firefox Add-on Marketplace
  - Utilized integration and unit testing tools like Selenium, MiniTest, JUnit
- Deep Blue
  - Paired programming with two other developers using Waterfall methodology
  - Utilized Java 8 and Eclipse IDE to design, code, test a fully functional text-based adventure game
  - Analyzed requirements specifications to construct UML/ERD diagrams, wireframes, and JUnit tests

Education

Lawrenceville, GA — Georgia Gwinnett College — 08/2013 - 05/2016

- Bachelor of Science: Information Technology
- Concentration: Software Development
- Minor: Business Administrations
- GPA: 3.79

Professional Experience

Data Analyst Intern — Porsche Cars North America — 12/2016 - 08/2017

- Automated documentation from Office docs to Jira and Confluence with PowerShell scripts
- Automated migration from BMC Track-It! to Jira via REST APIs and SQL Server data in Python
- Utilized a machine learning isolation forest algorithm to monitor anomaly status of file feeds
- Established a custom Hadoop Cluster environment for analyzing social media data