

TDA Challenge

Team: Panda-Storm-Pie

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Overview

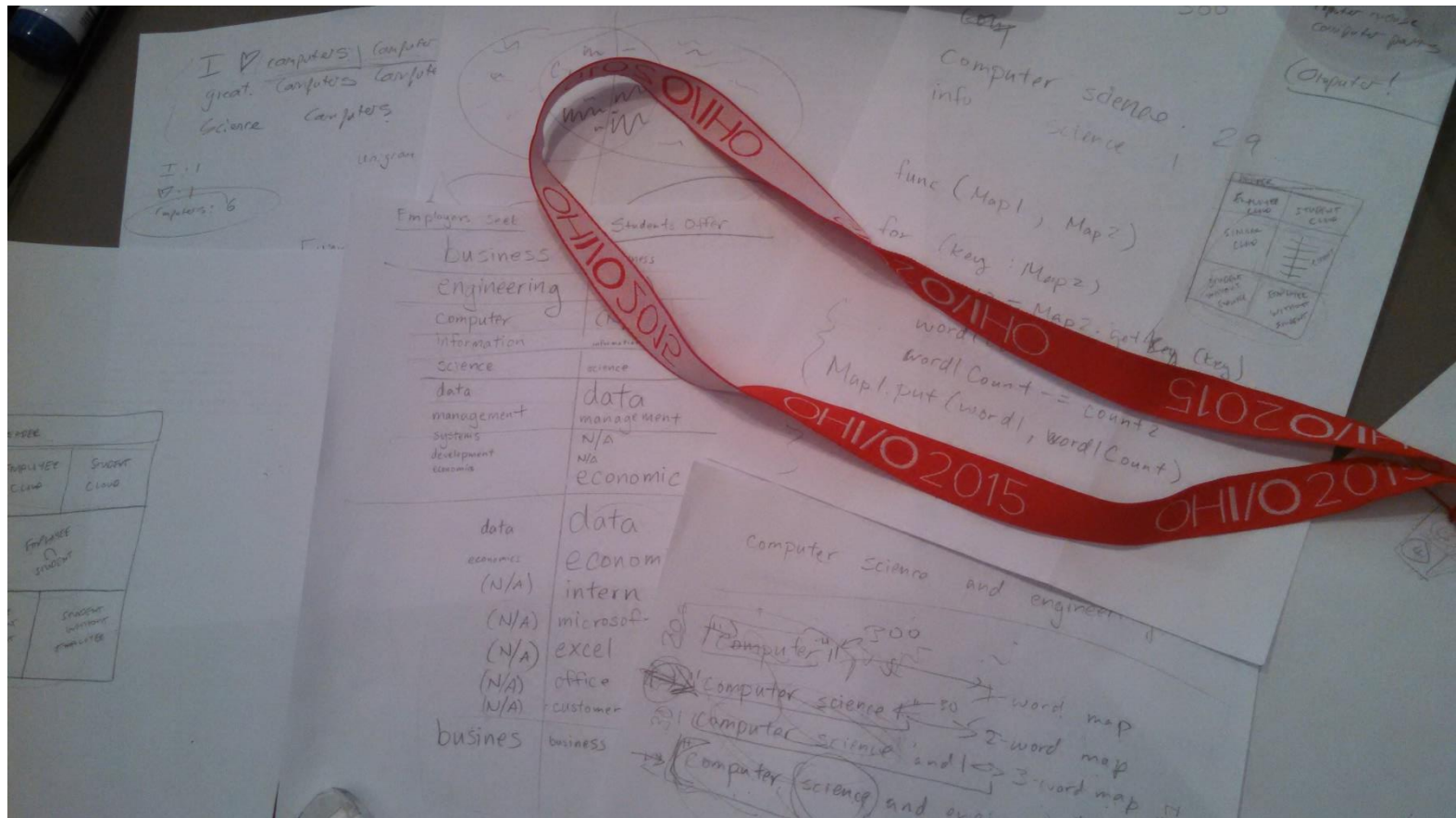
- * Challenge
- * Strategy
- * Implementation
- * Raw Results
- * Discussion
- * Recommendations

Challenge

- * Have:
 - * Job descriptions
 - * Résumés
- * Want:
 - * **Creative** visualizations of similarities and differences
 - * Recommendations to decrease inconsistencies

Strategy

- * Parse data from any text files to obtain
 - * Word frequency
 - * 2-word phrase frequency
 - * 3-word phrase frequency
 - * 4-word phrase frequency
- * Exclude irrelevant words (e.g. “in”, “skills”, “4”)
- * Normalize frequencies



Implementation

- * Standard Java, Eclipse, HTML, and text file data
- * Coded:
 - * Custom n-gram counters
 - * Suitable for reuse on future job postings and résumés
 - * Alphabetical tag cloud generator
 - * Similarity chart with novel size-illustration of frequency
- * Results displayed on webpage

Raw Results

- * Employers seek:

- * Business
- * Engineering
- * Computer
- * Information
- * Science
- * Data

- * Students offer:

- * Data
- * Economics
- * Intern
- * Microsoft
- * Excel
- * Office

Discussion

- * Level of experience matches
- * Majors/minors incongruent in sample data
- * Useful courses:
 - * Business
 - * Engineering
 - * Computer Science
 - * Computer Information

Recommendations

- * Students:
 - * tailor and update resume for specific positions
- * Employers:
 - * *“These are not the droids you’re looking for...”*
 - * but students in other areas likely match
- * Interesting disparity:
 - * students offered skills in specific Microsoft Office programs, but employers not interested

Questions?

Thank you from Team Panda-Storm-Pie!