Overview

Meet Your Presenter
Andrew Dang

Who are we
Illuminate Education

What we do
Create Tools for Educators & Students

The Problem

Examples
Andrew Dang

• Senior Engineer
• 5+ years at Illuminate
• Worked with Embedded BI Systems for 5+ years
MISSION STATEMENT

Creating tools that educators can use to promote student and educator success.
Educators Doing Technology

At the heart of Illuminate are educators.

- **44** Teachers
- **10** Technology Directors
- **16** District/Site Administrators
- **3** Superintendents
- **13** Instructional Data Coaches
- **5** Special Education Leaders
- **4** Curriculum Directors
- **2** School Psychologists
- **34** Support Specialists
- **46** Developers

203 Illuminators
EIP: Education Intelligence Platform

Helping Educators Change the World

DnA
Data and Assessment
Build assessments, access pre-built reports and analyze data quickly and easily to inform instruction.

ISI
Student Information
Capture every piece of student information to understand the whole picture.

ISE
Special Education
Enable teachers and providers to efficiently meet special education students' needs.

EIP: Education Intelligence Platform
Helping Educators Change the World

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Build assessments, access pre-built reports and analyze data quickly and easily to inform instruction.

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Student Information
Capture every piece of student information to understand the whole picture.

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We are Illuminating:

- 5,383,228 Students
- 1,602 Districts
- 14,436 Schools
Notable Illuminate Districts Across the Country

- Los Angeles Unified
- San Diego Unified
- Fresno Unified
- Santa Ana Unified
- Sacramento City Unified
- Minneapolis Public Schools
- Phoenix Union High School District
- Denver Public Schools
- Kalamazoo Public Schools
- Ann Arbor Public Schools
- Lead Public Schools
- Salt Lake City School District
- San Francisco Unified
- San Jose Unified
- Highline Public Schools
- San Antonio Unified
- Nashville Public Schools
- Bakersfield City School District
- KIPP Houston
- Westfield Public Schools
- Kalamazoo Public Schools
- Greenfield School District
- Over 10% of top 100 districts in the U.S. use Illuminate
The thing I like most about Illuminate is that it’s a company with heart. I can really tell it’s a company that cares more about the students than about making money which I highly respect. I have worked with companies that don’t have that priority and I can easily differentiate between the two.”
The Problem

• Educators have access to tons of data
  ▪ State Test Data
  ▪ Student Demographics
  ▪ Assessment Results
  ▪ Attendance
  ▪ Behavior
  ▪ Health
  ▪ Scheduling

• Educators need a one click way to consume data
  ▪ Teachers are busy teaching students
  ▪ Administrators busy making decisions

• Educators still like to use paper, but also want interactivity
The Tech Problem

- Limited developer resources
  - Time and speed to create reports
  - Number of reports
- Engineers not design focused
- Client created
  - Clients can make reports in Illuminate but they are not visual
Why Jaspersoft?

- Pixel perfect designer
- Customizable and flexible
  - Fonts
  - Customizable Highcharts
- Quick turnaround
- Only database schema knowledge required
  - No need to learn the main stack
  - Less resources taken away from engineers with domain knowledge
- Allows clients to create customized data visualizations
How?

Datasource: SQL or REST API

Build JRXML and identify input controls

Github for versioning

Push to server using Rest API
Illuminate Application
Grabs user input and
prepares REST call or
Visualize.js

Optional for
bigger reports

Reverse Proxy

Containerized instance of JasperReports Server
Token based Authentication
- Needed to determine database and user information
- Information is stored in the profile
- Utilize attributes in data source definition

Additional javascript, css, and image files are hosted on a CDN
- Internal CDN serves these files
- Find and replace links in HTML output
- Limits trips needed to Jaspersoft Server
Progress Monitoring

- Uses the HTML 5 Charts Component
  - Customized using the advanced properties (Highcharts API)
- REST API to retrieve report
- REST API to retrieve data
  - Utilizes custom jars built to retrieve data from Illuminate API endpoint
  - Data is created using Illuminate’s custom reporting tool
Progress Monitoring

Haskell, Eddie (550012785)
Site: Wiggins Elementary - MN
Grade Level: 6

Week Number

Letter Sound Fluency Score

- Some Risk
- At Risk
- Neurological Impress Method
- Achieve 3000
- Amazing Reading Intervention
SBAC Student Roster

- Uses Crosstabs
- Visualize.js to retrieve report
  - Allows for interaction with crosstab data
  - Users can format their data before exporting
- SQL to retrieve data
## SBAC Student Roster

### 2016-17 Smarter Balanced
Student Roster with Claim Levels for ELA

**Site:** Escalante Elementary  
**Roster Date:** Control Panel (10-26-2017)  
**Grade Levels:** All  
**English Proficiencies:** All  
**Reported Race:** All Reported Races  
**Gender(s):** Male & Female  
**Special Education:** Special & Non Special  
**Socio-Economic:** SED & Not SED

More information about this report can be found at http://illuminatedest.com

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*Student tested out of district

1) Distance from Level 3 is calculated for grades 3-8 only. Distance from Level 3 (252) measures how far each student is from the Level 3 (Standard Met) Smarter Balanced performance level.

Generated on 10/26/2017  
by illuminations.com  
ADDITIONAL FILTERS APPLIED: Teachers (488) Rosters, Items  
Students: All Students  
Add Student Group: All Students  
Page 1 of 1
Standards Gradebook Comprehensive

- Uses Crosstabs
- Has drilldowns through custom Javascript
- REST API to retrieve report
- SQL to retrieve data
Standards Gradebook Comprehensive

Summary for Grading Period: S1

Class Area of Strength:

- CACRSL.9-10.L.9.10.1: Cit strong and thorough textual evidence to support analysis of what the text says about its subject

Class Area for Improvement:

- CACRSL.9-10.L.9.10.5: Demonstrate understand of figurative language, word relationships, and nuances in word meanings

Detail

Students

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Bristol, Romel

CACRSL.9-10.L.9.10.2: Demonstrate a theme or central idea of a text and analyze its development over the course of the text, including how it emerges and is shaped and refined by specific details; provide an objective summary of the text.

Current Standard Score: 3.95

Calculation: Power Law

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Enter Scores for this Student  Create a New Assignment
• Uses Custom Visualization Component
  ▪ Allows custom Javascript to create more interactive reports
• REST API to retrieve report
• SQL to retrieve data
Assessment View Summary

Overall Performance

- Avg % Correct: 70.14%
- % Proficient: 47.73%

% at Each Performance Level

- Standard Exceeded
- Standard Met
- Standard Nearly Met
- Standard Not Yet Met

% at Mastery

Peer Comparisons

- By Site
- By Grade Level
- By Subgroup

Percent Correct

Sites
Thank you!