



# ACCESS REPORT

**PREPARED BY**

*Kevin Smith*

*Glady Barrios*

*Bradley Gauvin*

codeup 

# TABLE OF CONTENTS



Exec Summary.....	3
Team.....	5
Lesson.....	6
Access.....	7
Cohorts.....	9
Programs.....	10
Suspicious Activity....	11
Additional info.....	12

## **EXECUTIVE SUMMARY PART 1**

**1. Which lesson appears to attract the most traffic consistently across cohorts (per program)?**

- Data Science frequents Fundamentals
- Full stack - Java Script 1
- Web Dev frequents Content and Javascript I

**2. Is there a cohort that referred to a lesson significantly more than other cohorts seemed to gloss over?**

Each program generally looks at different lesson sets.

- Thus, it's helpful to answer this question by program.
- Data Science Cohort Darden accessed Classification, SQL, and Fundamentals Significantly more than other Cohorts
- Full Stack(Java) cohort Cerves accessed javascript-i more, but not significantly more visually.
- Full Stack (PHP) cohort Kings accessed content more than other cohorts, but lassen accessed index.html more than any other cohort

**3. Are there students who, when active, hardly access the curriculum? If so, what information do you have about these students?**

- Students who access the curriculum less than 10 times are from Full Stack - Java Script
- These are students in Voyageurs, Andromeda, Europa, Ganymede, Hyperion, Jupiter, Marco, Neptune and Oberon cohort

## EXECUTIVE SUMMARY PART 2

---

**4. Is there any suspicious activity, such as users/machines/etc accessing the curriculum who shouldn't be? Does it appear that any web-scraping is happening? Are there any suspicious IP addresses?**

Yes - There is suspicious activity

Yes- There is evidence of Webscraping

- Users accessing more than 20% of the endpoint (pages)
- Missing Cohort information
- Accessing from more than 20 IP addresses

**5. At some point in 2019, the ability for students and alumni to access both curriculums (web dev to ds, ds to web dev) should have been shut off. Do you see any evidence of that happening? Did it happen before?**

Yes it is still happening, and yes it happened before.

**6. What topics are grads continuing to reference after graduation and into their jobs (for each program)?**

- Full Stack Java- spring, javascript-i, html-css, mysql
- Full Stack PHP - Content, javascript-i, html -css, spring
- Data science- classification, fundimentals, sql, python

**7. Which lessons are least accessed?**

-Overall the least accessed lesson is examples (behind searches and table of contents)

By program the least accessed lessons are:

- Data Science: classification
- Front-End(no longer offered): Classification
- Full stack (Java): Javascript and Classification/Slides
- Full stack (PHP): Fundamentals and SQL



# DATA SCINECE TEAM



Kevin Smith

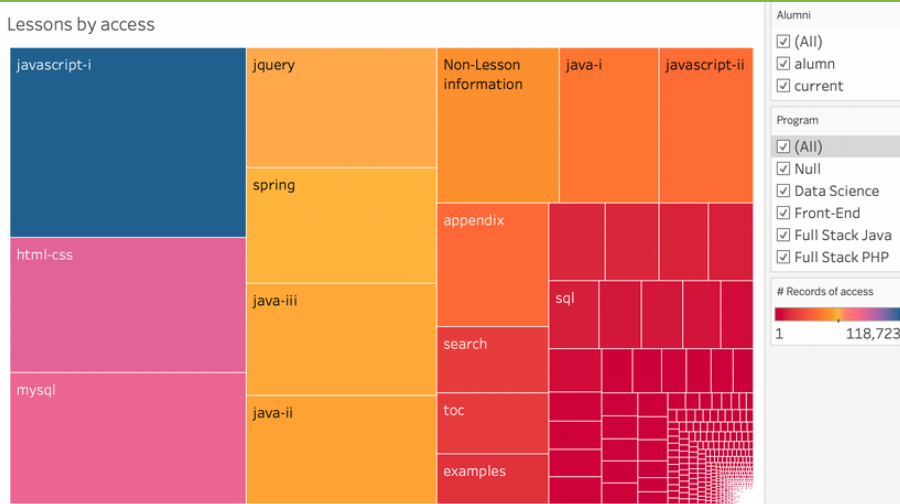


Gladys Barrios

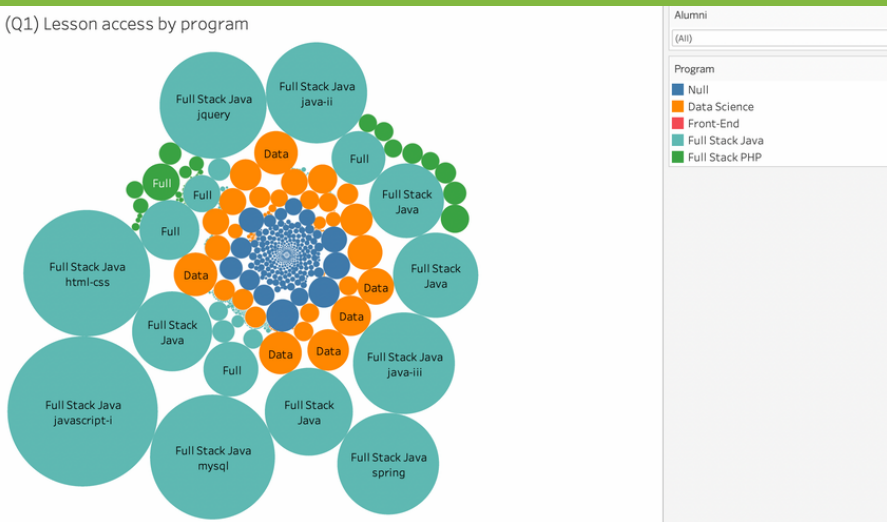
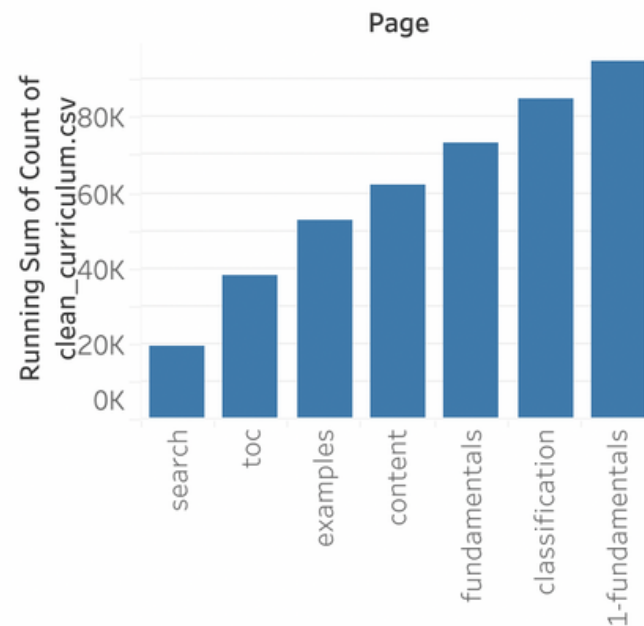


Brad Gauvin

codeup 



## Least Access Lessons



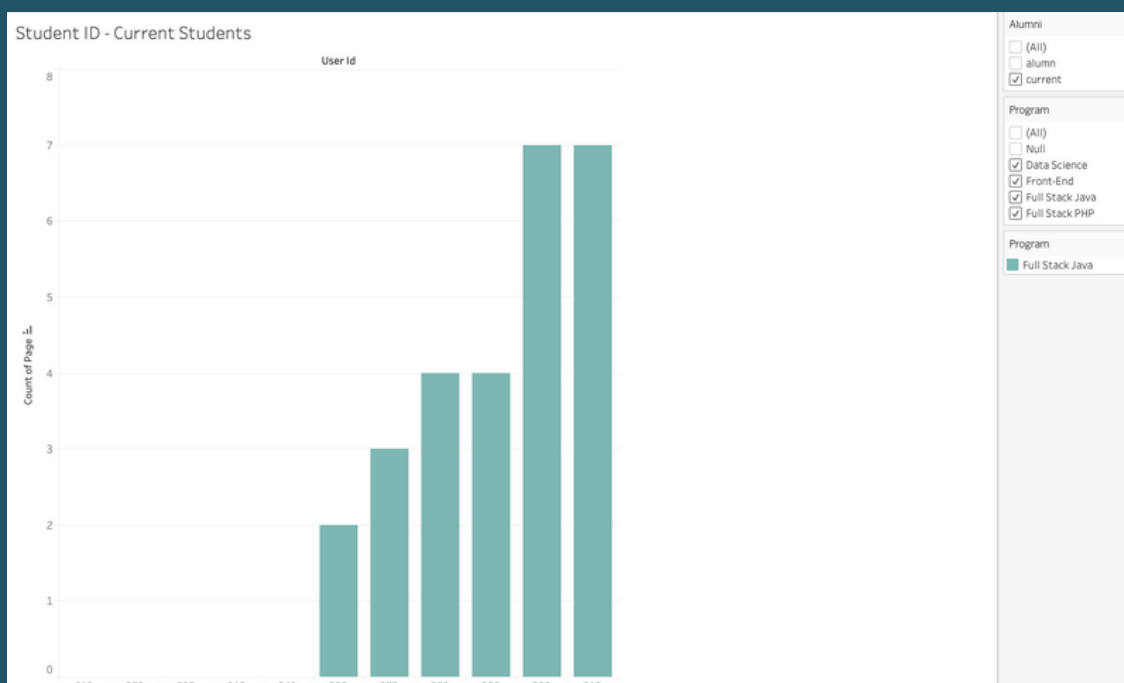
# LESSON DATA

- Overall, the **highest access lessons** were Javascript, html-css and mySQL lessons.
- For **alumni**, Javascript, spring and html-css were the highest access lessons.
- shareholders and other interested people information about the company's activities and financial performance.
- Full stack students made up **80%** of the total student access, followed by Data Science at **12%**.
- Alumni, students who accessed after their time at CodeUp, make up **14%** of the total accesses. Students who were enrolled in a program at the time of access made up the **86%** difference.
- The least access pages (Question 7) was searches, table of contents, and examples.
- Zion** was the cohort with the most accesses to Codeup Overall

11 Students had less than 10 visits to the Codeup Website. All students were from the Full Stack (JAVA) program

11

students w/ less than  
10 Curriculum Visits



# Minimum Alumni Access

Alumni would be expected to access the curriculum less and less, but **Front End** and **Data Science** Students Tend to come back to review information.

# Alumni vs Current Students

**14.19%**

*Accesses to CodeUp Website are  
Alumni Accessing Lessons*

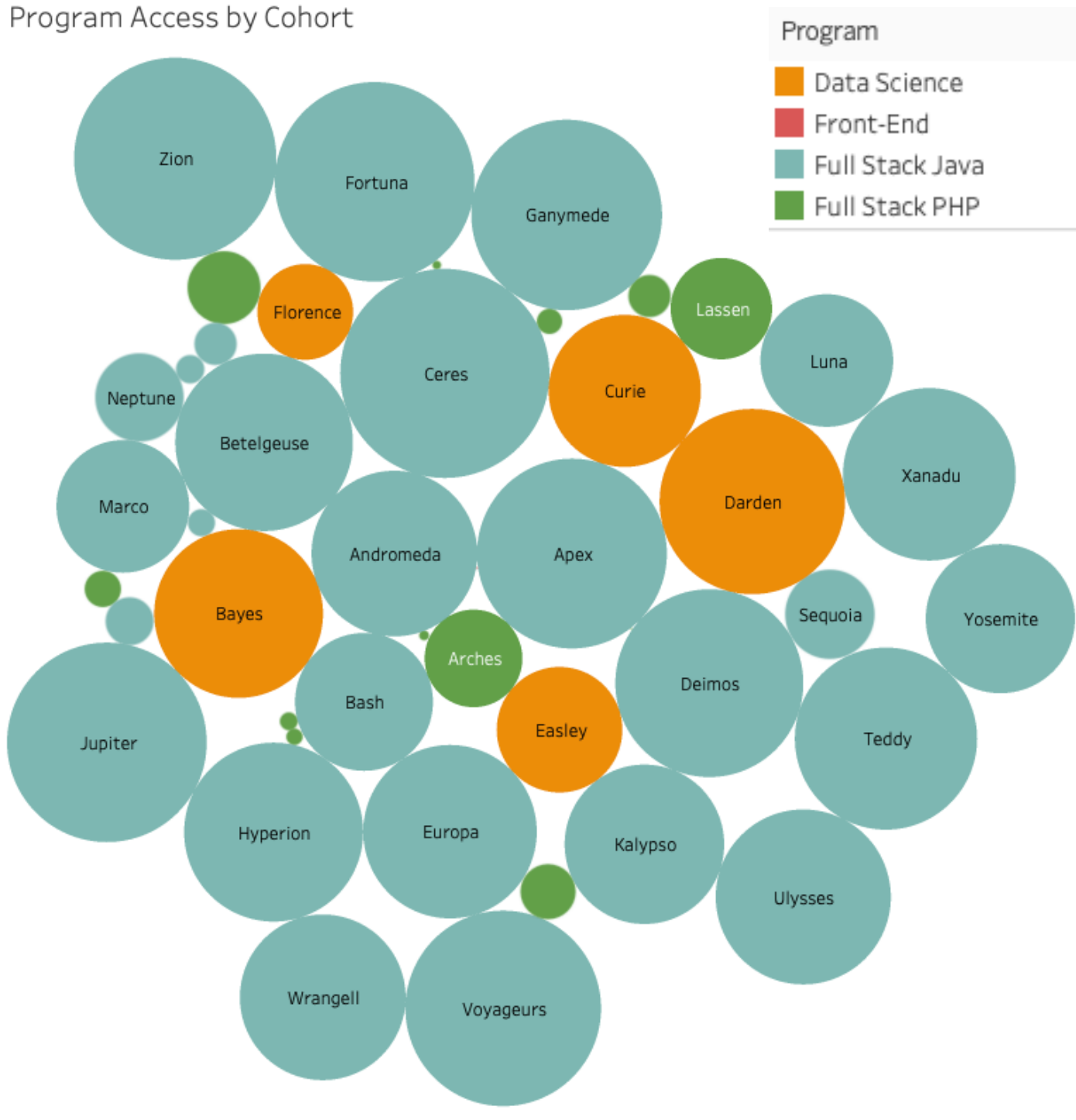
**85.81%**

*700K Accesses are were completed  
by students durning their time as a  
CodeUP student*



# Access by Cohort

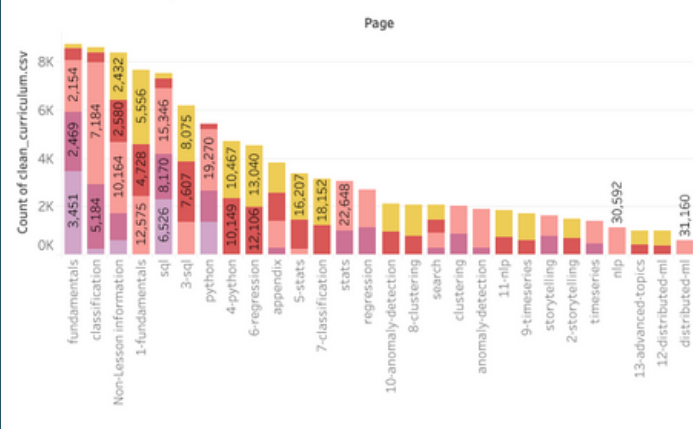
Program Access by Cohort



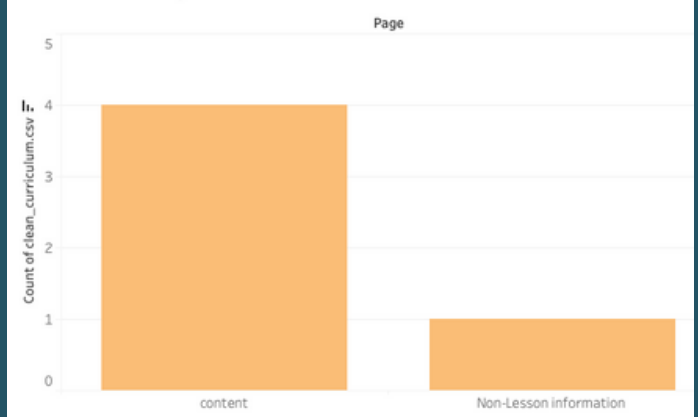
Full Stack Programs make up the bulk of CodUp's students.  
However, Data Science access by Cohort is Comparable

# Program - Page Access

Lesson access by Data Science



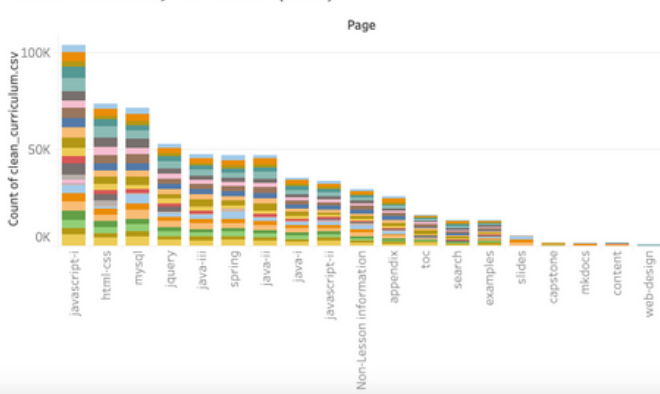
Lesson access by Front-End



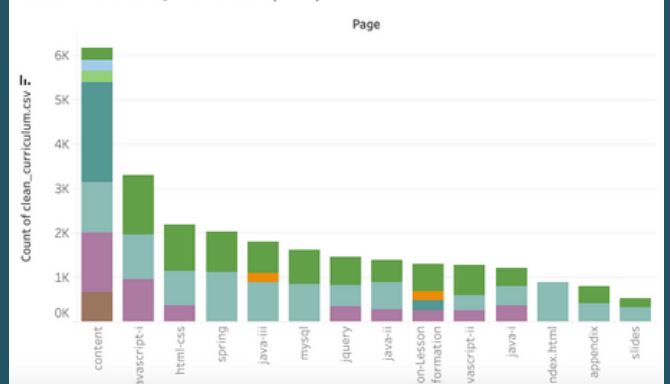
## Data Science

## Front- End

Lesson access by Full-Stack (Java)



Lesson access by Full Stack(PHP)

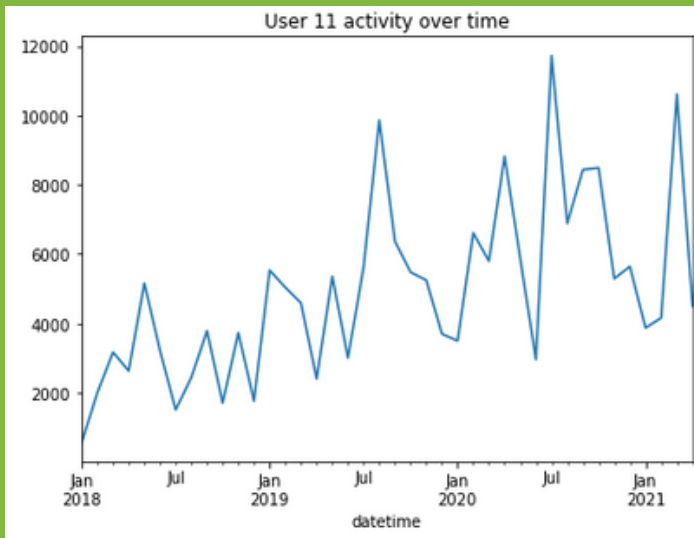


## Full Stack Java

## Full Stack PHP

- Each Program has access to different lesson pages
- Some Cohorts visit pages more frequently
- Front-End only had one class



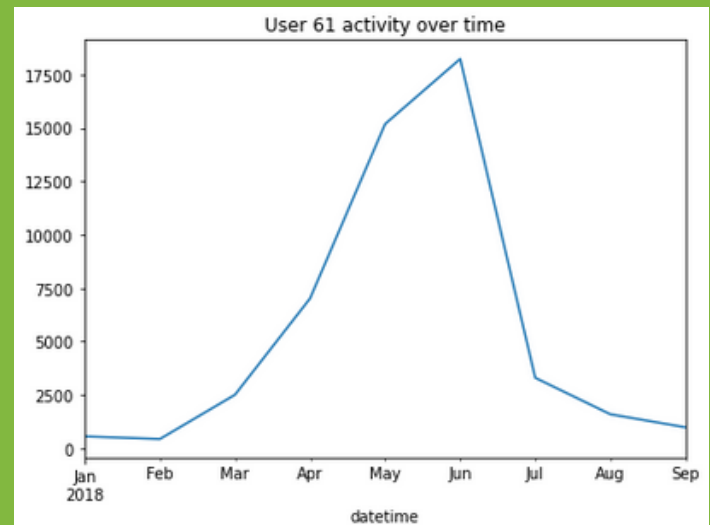


### Suspicious Student Activity

- Shows activity beyond scope of program.
- Shows increased activity over time
- Showing Spikes in activity

### Normal Student Activity

- Shows activity within scope of a program
- Shows activity after, but declining
- Expected sharp decline after a course completion.
- 



# SUSPICIOUS ACTIVITY

- EVIDENCE OF WEB SCRAPING HAS BEEN FOUND
- SUSPICIOUS ACTIVITY CAN BE MONITORED AND MINIMIZED
- FURTHER RESEARCH AND RESOURCES WARRANTED TO FIND MORE INFORMATION
- **SUGGEST CREATING PIPELINE FOR FUTURE MONITORING**



# THANK YOU

**PREPARED BY**

*Kevin Smith*  
*Glady Barrios*  
*Bradley Gauvin*

codeup 