

# MATTHEW TROMBLEY



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## EDUCATION

### MATHEMATICAL SCIENCES, B.S. – CLEMSON UNIVERSITY

AUG. 2014 - PRESENT

- Concentration in Operations Research & Management Science (GPA – 3.84)
- Minor in Engineering
- Member of the Calhoun Honors College
- Senior with expected graduation in May of 2018

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## EXPERIENCE

### INFORMATION SYSTEMS INTERN – GLAXOSMITHKLINE

MAY 2017 – AUG. 2017

- Created self-service data applications supporting legal compliance business functions using Qlik Sense
- Implemented usage of On-Demand App Generation (ODAG) to quickly and effectively process big data and provide best possible performance to the end user
- Explored possibilities of big data (Hadoop) integration into current data ecosystem
- Gained knowledge of entire data architecture, from ingestion to storage to consumption

### MARKETING INTERN – CLEMSON UNIVERSITY ATHLETICS

AUG. 2016 - DEC. 2016

- Assisted with a variety of tasks to support sports marketing functions within Clemson Athletics including creating graphics, running game time promotions, and advertising games to the public & student body
- Led marketing & promotion efforts for IPTAY Day game for Clemson's nationally ranked men's soccer team
- Researched the effectiveness of new marketing activities to apply to future games and events

### DATA ANALYST INTERN – EPIC GAMES

MAY 2016 - AUG. 2016

- Worked with datasets containing billions of records to create insights supporting multiple business functions including game development and marketing
- Coded in Hive Query Language, an SQL variant built for Hadoop-based file systems, to analyze data
- Researched and derived a sabermetrics-style model to compare the effectiveness of in-game characters
- Explored analysis & visualization of in-game data using Datameer and Tableau

### MATH CONTENT SPECIALIST INTERN - WEBASSIGN

MAY 2015 - AUG. 2015

- Converted traditional, text-based teaching materials (textbooks, tutorials, etc.) into digital content for use by hundreds of thousands of students worldwide
- Coded in a variety of programming languages including Perl and LaTeX while working with high-level mathematics

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## LEADERSHIP & ORGANIZATIONS

- Vice President of the Student Advisory Board for Clemson's athletic booster club IPTAY
  - Work with IPTAY staff to promote Collegiate Club and assist with events relating to athletics including Hall of Fame inductions, Solid Orange Friday, and sport-specific ceremonies
- Member of American Statistical Association, Student Alumni Association, and Recreational Golf Club

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## SKILLS

- Programming - MATLAB, R, SAS, SQL, LaTeX
  - Adobe Creative Suite - Premiere, After Effects, Photoshop
  - Data Analysis & Visualization – Tableau, Qlik Sense
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## PROJECTS

- Creative Inquiry at Clemson to investigate the use of statistical methods with football data
  - Analyzing football game data by applying both statistical & machine learning methods to help increase performance of Clemson's National Champion football team
- Creative Inquiry at Clemson to facilitate math competitions for local K-12 students
  - Gathered school data on 5 counties, proctored 6 competitions and analyzed competition results
- Clemson Homecoming Video Contest
  - Created video aimed towards football "homecoming" theme and won runner-up among dozens of entries