

# Gabriel Bayomi Tinoco Kalejaiye

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## Education

### Carnegie Mellon University

MASTER OF SCIENCE, SCHOOL OF COMPUTER SCIENCE, INTELLIGENT INFORMATION SYSTEMS

Pittsburgh, PA, USA

Aug 2017 - Dec 2018

- I'm focused on the processing and analysis of unstructured and semi-structured information: text, image, video, speech, and audio information.

### Cornell University

COMPUTER SCIENCE, SCIENCE WITHOUT BORDERS SCHOLAR - EXCHANGE STUDENT

Ithaca, NY, USA

Fall 2014, Spring 2015

- GPA: 3.71/4.0; Dean's List; Full Year Scholarship - Science Without Borders.

### University of Brasilia

B.S. IN ELECTRICAL ENGINEERING

Brasilia, DF, Brazil

Mar. 2012 - Aug. 2017

- GPA: 4.21/5.0; Young Talents for Science Scholarship.

## Experience

### Kraft Heinz

ENGINEER INTERN, DATA ANALYSIS

Neropolis, GO, Brazil

Winter 2017

- Implemented data processing techniques with regression/ML models to improve Kraft Heinz industrial process in Brazil, saving more than \$300,000/year for the company branch with the project. I used as Stack/Frameworks/Libraries: Python, Javascript; scikit-learn, openpyxl, Tkinter, HTML/CSS/JQuery.

### Brightcove, Boston HQ

SOFTWARE DEVELOPER INTERN

Boston, MA, USA

Summer 2016

- Implemented a new taxonomy structure, using graphs algorithms with client's data, using Express, Angular, Node.js and ElasticSearch.

### Stanford Crowd Research

RESEARCHER, REMOTE

Online, Remote

2016

- Among the top contributors of the international crowd-research initiative, I helped to build an optimized crowdworking platform.

- **Publications:** CSCW '17 (<http://hci.stanford.edu/publications/2017/crowdguilds/guilds.pdf>).

### Brightcove, Boston HQ

SOFTWARE DEVELOPER INTERN

Boston, MA, USA

Summer 2015

- I developed the integration, front-end, DRM authentication and BCOV ads of video player platforms for Chromecast and FireTV, using mostly the MEAN stack. Also developed a platform to visualize and analyze real-time data from video stream, using d3.js, Node.js and Firebase.

### University of Brasilia

UNDERGRADUATE STUDENT RESEARCHER, YOUNG TALENTS FOR SCIENCE SCHOLARSHIP

Brasilia, DF, Brazil

2012-2016

- Our research team won the Maniac Challenge 2013. Besides that, I've worked in a diverse set of research projects in computer communications, machine learning and computational social science.

- **Publications:** SocialSens'17, IoTDI '17, ACM SIGCOMM Computer Communication Review 13': <http://gbayomi.com/publications>.

## Projects (<http://gbayomi.com/portfolio>)

### KARDASHIAN CHATBOT

2017

- I collected thousands of Kardashian's tweets and used a Seq2Seq wrapper to build an online Python chatbot with Tensorflow and Flask

### WINDY GRIDWORLD PROBLEM

2016

- Demo: <https://gbayomi.github.io/windy/>. A visualization of SARSA and Q-Learning, reinforcement learning algorithms, solving the Windy Grid World for a variable set of inputs.

### GLOBO HACKATHON (3RD PLACE AND TECH JOURNALISM PRIZE)

2016

- We built a data-driven immersion App with Google Cardboard and news clustering to provide a historical immersion experience with a vivid storyline to users.

### DATA CLUSTERING AND VISUALIZATION FOR THE QS UNIVERSITIES RANKING

2015

- Demo: <https://gbayomi.github.io/RankingUni-Data/>. Dynamic data visualization for the QS Ranking topics of evaluation, using D3.js and k-means clustering.

## Languages, Technologies and Other Skills

- **Skills:** Python, Javascript, Java, C, Matlab || scikit-learn, Numpy, Tensorflow, MySQL, NLTK, d3.js, JQuery, Node.js, Express || Swift/Objective-C (course-work) || Natural Language Processing (NLP), Machine Learning.
- **Relevant Coursework:** Machine Learning; Language and Statistics; Advanced Multimodal Machine Learning; Intelligent Systems; Dynamic Control; Probability and Statistics; Data-Driven Web Applications; Linear Dynamic Analysis; Web Programming; iOS App Development; Systems Engineering; Ad-Hoc Networks; Networks

## Honors & Awards

2012 **Young Talents for Science Scholarship**, CAPES, Brazilian Government

Brasilia, Brazil

2013 **Best Strategy Prize**, Maniac Challenge 2013, IETF/IRTF

Berlin, Germany

2014 **Science Without Borders Scholarship**, CAPES, Brazilian Government

Brasilia, Brazil

2014/15 **Dean's List**, Cornell's College of Engineering

Ithaca, NY

2016 **Best Tech Project for Journalism & 3rd Best Tech Project Overall**, Globo Hackathon

RJ, Brazil

2017 **Fellowship (33 out of 84,000 students)**, Fundacao Estudar

SP, Brazil