

GABRIEL BAYOMI TINOCO KALEJAIYE

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WORK EXPERIENCE

Kraft Heinz

Neropolis, GO, Brazil, Winter 2016-2017

Intern (Brazilian Summer)

- I'm working with data mining, processing and analysis to improve the Kraft Heinz industrial process in Brazil.

Brightcove

Boston, MA, Summer 2016

Software Development Intern

- I built a node.js CMS implementation to provide a flexible taxonomy for videos, using trees and graph theory.

Stanford Crowd Research Collective

January 2016 — June 2016

Human-Computer Interaction Researcher

- Crowd Research is an experimental initiative to recognize the potential of upcoming student researchers and explore the possibility of massive research collaboration. It is a first of its kind research-at-scale initiative in the world. I was a co-author of an ACM CSCW Paper.

Brightcove

Boston, MA, Summer 2015

Software Development Intern

- I developed the integration of video player platforms for Google Chromecast (and later for FireTV). I designed the whole front-end (UX/UI) platform, the DRM authentication system, integrated with Brightcove Ads engines, using mostly HTML/CSS/JS, node.js. I developed a platform to visualize and to analyze the real-time data acquired from the video stream, using d3.js, node and Firebase.

Digital Signal Processing Group (GPDS)

University of Brasilia, August 2012 — Present

Networks and Communications Researcher

- I worked on Mobile Offloading in Wireless ad-hoc Networks and methods to measure and improve their efficiency. We published a paper about it on the ACM SIGCOMM Computer Communication Review on July 2014 (<http://www.sigcomm.org/node/3505>).
- Currently, we are working with mobile sensing solutions for urban transportation problems. Our web infrastructure is based on node.js and mongoDB.

Autolog SI

Brasilia, Brazil, July 2013 — July 2014

Co-founder

- Cofounder of a startup accepted for incubation in one of the two incubators in town. We developed a prototype of a education-based social network that allowed students to trade and sell items to other students in the same university using Bootstrap/PHP/MySQL.

QUALIFICATIONS

Programming Experience: Java, Javascript, C, SQL, HTML/CSS, Python, PHP (Confident) Matlab, Swift/Objective-C (Familiar).

Selected Courses: Machine Learning; Intelligent Systems; Data-Driven Web Applications; Intermediate Web Programming; iOS App Development; Engineering Computation; Systems Engineering; Ad-Hoc Networks; Networks; Data Structures and Algorithms

EDUCATION

University of Brasilia

2012 — 2017

Electrical Engineering - IRA: 4.19/5.0

Academic Achievement listed as Outstanding by the Dean of Electrical Engineering

Cornell University

Fall 2014 — Spring 2015

Electrical and Computer Engineering - GPA: 3.71

Science Without Borders Scholarship Program: 1 year Talent Scholarship granted by Brazilian Government. Dean's List Honor.

Harvard University Extension School

Winter 2016

Economy of Financial Markets (Noncredit course).

FINISHED PROJECTS AND APPS

Maniac Challenge App

- The challenge consisted on developing an Android App with our designed strategy to offload data via ad-hoc networks..

URL Checker

- A Python (Flask) URL checker using Support Vector Machines to check if a link is malicious or not (without third parties).

Globo Hackathon (3rd Place and Tech Journalism Prize)

- 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. Globo is the biggest Brazilian media conglomerate and selected 50 participants to a live-streamed hackathon event.

Pump it Up: Data Mining the Water Table

- Data Science Competition focused on the optimization and fault prediction of water pumps in Tanzania.

Windy Grid World Problem - Reinforcement Learning Visualization

- A visualization of SARSA and Q-Learning algorithms, solving the Windy Grid World for variable inputs.

Data Clustering and Visualization for the QS Universities Ranking

- Dynamic data visualization for the QS Ranking topics of evaluation, using D3.js and k-means clustering.

Nine Yards Web Inventory Infrastructure

- Nine Yards was a social enterprise that employs female acid attack survivors. I developed the shopping cart infrastructure, using PHP/SQL.

PRIZES, HONORS, ARTICLES

Paper accepted at ACM CSCW 2017, Portland, USA, September 2016.

Paper published at ACM SIGCOMM Computer Communication Review, July 2014.

Maniac Challenge Winner, IRTF/IETF – Berlin, 2013

Dean's List, College of Engineering, Cornell

Science Without Borders Scholarship, 2014-2015 CAPES

Young Talents for Science Scholarship, 2012-2013 CAPES

Best Speaker Prize, 2014 Americas Model United Nations