Brayan RODRIGUEZ

Personal Data

PLACE AND DATE OF BIRTH:	Cali, Colombia	12 November 1995
ADDRESS:	Carrera 80A # 43-40, Caney, Cali, Colombia
PHONE:	+57 312 2384434
EMAIL:	brayanrodbajo@gmail.com
GITHUB LINK:	https://github.com/brayanrodbajo
LINEDIN LINK:	https://linkedin.com/in/brayanrodbajo/

Work Experience

Current
JUN 2019

Adjunct Instructor at UNIVERSIDAD ICESI, Cali

Algorithms and Programming: I introduce engineering students to the algorithms world aligned to a problems solving method by making analysis and using Python programming language.

Current
JUL 2017

Research Assistant at UNIVERSIDAD ICESI, Cali

I work in music analysis and music emotion recognition with machine learning techniques. I developed a tool for extracting acoustic features of three random excerpts of ten seconds of a song classified within an emotion. Besides this, I developed a web-based tool in which the user builds a vacation plan in order to measure the influence of the background music on task performance. We analyzed the results by applying statistical measurements and clustering techniques. Finally, together with the research project team, a paper and a chapter book about this was approved and published in the 12th International Conference on Interfaces and Human Computer Interaction in Madrid and in the book "Handbook of Research on Human-Computer Interfaces and New Modes of Interactivity" respectively.

JUN 2017 - SEP 2017

Computer Engineer at UNIVERSIDAD DEL VALLE, Cali

I worked on analysis and design of web-based tool project, web development with Joomla and WordPress CMS.

JUL 2016 - JAN 2017

Software Development Intern at ALERT LOGIC, Cali

I worked on front-end with Angular 2 Framework, Continuous Delivery with Jenkins, nodes creation in an Environment Manager with cookbooks in Ruby, back-end with NodeJS, application performance monitoring with Datadog, and unit testing with Jasmine and Mocha.

AUG 2013 - JUL 2016

Teaching Assistant at UNIVERSIDAD DEL VALLE, Cali

I was a teaching assistant on the following courses: Algorithms and Programming and Introduction to Computer Technology. For the first course, we used Java and Python Languages and for the second one we managed office suites, HTML and Google Sites platform.

Education

Current Jan 2018	Master's Degree in Computer Sciences and Telecommunications **Universidad Icesi**, Cali
Feb 2012 - Jan 2017	Undergraduate Degree in Systems Engineering **Universidad del Valle**, Cali Thesis: "Using probabilistic parsers supporting musical composition, on the basis of the musical model of Grupo Niche songs" Advisor: Raul Gutierrez & Gerardo Sarria Gpa: 4.49/5
Oct 2012 - Dec 2016	Music Course **Musicos al Servicio de Dios**, Cali
Aug 2011 - Jul 2012	Music Pre-basic Course **Universidad del Valle**, Cali
Jun 2011	Academic Secondary **Colegio Americano**, Cali

Conferences

2018	The effect of background instrumental music on emotion and performance IADIS International Conference Interfaces and Human Computer Interaction 2018 (part of MCCSIS 2018), Madrid, Spain
2017	Using probabilistic parsers to support Salsa music composition Mathematics and Computation in Music Conference(MCM2017), Mexico City, Mexico

Publications

2019	"Instrumental Music Design: Influence on Task Performance" at Australia Handbook of Research on Human-Computer Interfaces and New Modes of Interactivity ed: *IGI Global* p. 255 - 274,2019, DOI: 10.4018/978-1-5225-9069-9.ch015
2018	"In store shelf display technology for enhancing customer brand recognition" at USA OzCHI '18 Proceedings of the 30th Australian Conference on Computer-Human Interaction ed: *ACM* p. 416 - 420,2018, DOI: 10.1145/3292147.3292186
2018	"The effect of background instrumental music on emotion and performance" at Spain MCCSIS 2018 ISBN: 978-989853379-1 ed: *IADIS*
2017	"Using Probabilistic Parsers to Support Composition in Salsa Music" at England Lecture Notes In Computer Science ISSN: 0302-9743 ed: *Springer* v.10527 fasc. p.1 - 12,2017, DOI: 10.1007/978-3-319-71827-9

Awards and Certificates

2013-2016	Awarded with Academic Scholarships for being at the top of the class on semester 2, semester 3, semester 4, semester 6, semester 7, semester 8, semester 9 and semester 10 of my undergraduate degree in Systems Engineering.
Jun 2016	Web development training focused on AngularJS Applications.
Jun 2017	Awarded as the best graduate student of Computer Science because of my Grade Point Average of 4.49/5.
Jun 2017	My undergraduate Final Project was awarded with a meritorious mention.
May 2018	Neural Networks and Deep Learning in Coursera.

Languages

Spanish: Mothertongue
English: Fluent

Volunteering Experience and Causes

Current	Music Teacher at Musicos al Servicio de Dios, Cali
Mar 2013	I am a Music Teacher volunteer of children and youths at this music academy at a christian church that I attend. The teaching is about general music grammar and the theory of musical harmony. In practicing, the students play an specific instrument as bass, guitar, piano and drums besides vocal technique.

Skills

Basic Knowledge:	HTML, Declarative Programming, Natural Language Processing, Node.js, Angular2, JavaScript, Typescript, Flask, Django, Constraint Programming, Knowledge Discovery Databases, Linux, Unix, Evolutionary Computation, SQL, Digital Signal Processing, Angular, Continuous Delivery, Process Automation, Jenkins, Mozart, Redis, LaTeX.
Intermediate Knowledge:	Music Generation, Python, Functional Programming.

Interests and Activities

Music, Electric Bass, Piano, Drums,
Programming Contest, Open Source, Functional Programming
Soccer, Sports
Social Conscience, Music Composition, Music Technology