

2301 Vanderbilt Place
PMB 354181
Nashville, TN 37235
+1 615-554-5017

Juan S. Hoyos

juan.s.hoyos@vanderbilt.edu
github.com/atomokushushu
<https://bitbucket.org/hoyosjs>

EDUCATION

Nashville, TN **VANDERBILT UNIVERSITY** **Fall 2014 – Spring 2018**

- B.S in Computer Science, May 2018. GPA: 3.70/4.00. In major GPA: 3.77/4.0
- B.S in Mathematics, May 2018. GPA: 3.70/4.00. In major GPA: 3.70/4.0
- Coursework: Digital Logic, Discrete Structures, Program Design and Data Structures, Intermediate Software Design, Accelerated Calculus II, Multivariable Calculus, Linear Algebra.

ONLINE COURSES

- EdX: Introduction to Computer Science and Programming Using Python (*MIT*)
- Coursera: Algorithms: Design and Analysis, Part 1 (*Stanford University*); Algorithms, Part 1 (*Princeton University*); Machine Learning (*Stanford University – Ongoing*)
- Udacity: Android Development for Beginners (*Google*); Developing Android Apps (*Google – Ongoing*); How to Use Git and Github (*Udacity – Ongoing*)

WORK EXPERIENCE

Teaching Assistant **VANDERBILT UNIVERSITY EECS** **Aug. 2015 - Ongoing**

- Grade students' code, including debugging, possible optimizations, and style of C++ implementations of different data structures.
- Guide students on algorithmic thinking and implementation methods for basic data structures from high level description to edge case testing.

Teaching Assistant **COLOMBIAN OLYMPIAD ON INFORMATICS** **June – July, 2015**

- Assisted in the teaching of classic problem solving paradigms including algorithm design and analysis, common techniques used in problem solving, and optimization techniques.
- Helped design tests which included problems to test design paradigms application in different contexts.

Head Tutor **APRENDER CENTRO DE ESTUDIOS** **Jan. 2013 – June 2014**

- Planned, designed, and executed study schemes for middle and high school students using personalized alternative methods of teaching in subjects such as mathematics, physics, computer science, and Spanish.

PROJECTS

- **Nibble (Ongoing)** – Developing an online social application that allows users to recommend food options in nearby restaurants based on picture reviews and specific applicable filters. (Developed using Android, XML, and Parse, integrates Facebook API)

ADDITIONAL EXPERIENCE AND AWARDS

- **First place team, ACM ICPC Mid-central region, TN Tech site (2014)** – Part of first place team in both university and site regional qualifiers for the International Collegiate Programming Contest.
- **XXV International Olympiad on Informatics (IOI)** – Part of the Colombian delegation for the XXV IOI.
- **IberoAmerican Informatics Competition (CIIC)** – Silver medal in the XVI CIIC and bronze medal in XVII CIIC.
- **XIV CentroAmerican & Caribbean Math Olympiad (OMCC) (2012)** – Obtained silver medal as part of the Colombian delegation.

LANGUAGES AND TECHNICAL SKILLS

- **Proficient:** C++, Java
- **Regular usage:** Python

EXTRACURRICULAR ACTIVITIES

1. **VandyApps** – Working on the development of an app to assess students in class scheduling to fulfill requirements for majors and minors.
2. **Vandy CS** – Working on the implementation of an online judge for internal use in the university to train for coding contests and a short lecture-like series showing algorithmic problem solving paradigms.
3. **IEEE** – Working on library implementations for different sensors for with Arduino boards.
4. **Society of Hispanic Professional Engineers**

NONTECHNICAL SKILLS

- **Languages** – Full proficiency in both English and Spanish