

# RODRIGO DELEU LOPES PONTES

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## EDUCATION:

**Georgia Institute of Technology**, Atlanta, Georgia *August 2016 – Present*

- Candidate for Bachelor of Science in Computer Science with expected graduation in May 2021 and 4.00 GPA.

**Colégio Dante Alighieri**, São Paulo, São Paulo, Brazil *February 2011 – November 2015*

- 3.96 GPA.

## WORK EXPERIENCE:

**Bloomberg Software Engineering Intern**, New York, New York *May 2019 – August 2019*

- Developed a dashboard for automating the rollout and deployment pipeline for enterprise collateral applications;
- Automated various steps in the pipeline which required manual interaction with different functions in the Bloomberg Terminal, significantly decreasing periods of unavailability for enterprise clients and speeding up the rollout process by 90%;
- Created a web application using React.js, Bulma, Sass, Express and Node.js, and a backend using Python and SQL.

**BigHive Android SDK Developer Intern**, Atlanta, Georgia *August 2018 – December 2018*

- Developed the entire Android SDK for BigHive, a start-up which aggregates and processes user location information;
- Implemented Flink jobs in Scala that cluster location data using DBSCAN, using Kinesis for input and MongoDB for output;
- On Android, learned more about parallelization, backend interaction, gathering location data, and optimizing battery usage.

**Data Structures and Algorithms TA and Senior TA**, Atlanta, Georgia *January 2018 – May 2019*

- Was selected, based on my academic performance and communication skills, to be a TA for one of the largest and most important CS classes at Georgia Tech, and was promoted to Senior TA based on my performance and involvement as a TA;
- As a TA, gained greater insight into the subject by teaching it to students in recitation, correcting homework and tests, reviewing code, answering students' questions in office hours and online, and creating homework and unit tests with JUnit;
- As a Senior TA, helped formulate exams by writing questions, took on various administrative duties, and expanded upon a data structures and algorithms visualization tool to include all topics taught in class.

**Itaú Unibanco DevOps Internship**, São Paulo, São Paulo, Brazil *May 2017 – July 2017*

- Interned in Itaú Unibanco's DevOps team, developing scripts for their continuous integration pipeline for their mobile apps;
- Gained technical experience with Bash, Linux, Jenkins and SonarQube, in addition to experience with Agile development.

## RESEARCH:

**Passive Haptic Learning (PHL) Research with Prof. Caitlyn Seim**, Atlanta, Georgia *August 2017 – May 2018*

- Developed an Android Wear app to study PHL for learning Morse code, and soldered rehabilitation gloves for stroke patients.

## PROJECTS:

**Data Structures and Algorithms Visualizations Tool**, Atlanta, Georgia *May 2018 – Present*

- Expanded upon a data structures and algorithms visualization tool using JavaScript and Electron to include all topics taught in the class I am a TA for, to help students learn the course materials and to assist them in practicing and preparing for exams.

**Independent Android Application Development**, São Paulo, São Paulo, Brazil *December 2015 – August 2016*

- Developed three Android applications using Java and Android Studio, which jointly totaled 2,800,000+ downloads:
  - WhatsBubbles – Brings Facebook like chat bubbles to WhatsApp, allowing users to chat in any app;
  - WiFi File Transfer – Creates an HTTP server on the user's phone that can be used to download and upload files;
  - Math Mania – A fast paced game that tests the user's math skills and helps improve his or her mental arithmetic.
- Gained extensive experience with Android, UI/UX design, publishing and promoting apps, and interacting with users.

## EXTRACURRICULAR ACTIVITIES:

**Google CodeU Participant**, Atlanta, Georgia *May 2018 – August 2018*

- Was invited to participate in Google's CodeU program, in which I helped develop a JSP based chat app;
- Learned more about effective Git usage and thoroughly testing code with unit tests and mocking frameworks.

**Brazilian Student Association Vice President**, Atlanta, Georgia *January 2018 – May 2018*

- Organized an information session with Itaú Unibanco for Georgia Tech students to promote their internship program.

## SKILLS:

*Advanced:* Java, Android, JavaScript, Python, Linux; *Intermediate:* React.js, Node.js, Express, Electron, Android Wear, JUnit, Mockito, C, Bash, Scala, Flink, Git, SQL, HTML, CSS; *Novice:* Bulma, Sass, JSP, Jenkins, SonarQube