

# Juan C. Torres

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## EDUCATION

**Dartmouth College**, Hanover, NH

Master of Science (M.S.) in *Computer Science*

Jun 2018

- Recipient of merit-based 100% Tuition Scholarship

**Dartmouth College**, Hanover, NH

Bachelor of Arts (B.A.) in *Computer Science*

Mar 2017

- G.P.A.: Overall: 3.48, major: 3.62, senior-year: 3.88
- Second Honor Group 2016-2017 (top 15% of college-wide G.P.A.s)

**University of Copenhagen**, Copenhagen, Denmark

Exchange program in Sociology

Aug 2015 – Jan 2016

**Jorge Robledo Institute**, Medellin, Colombia

Primary and Secondary Education

Jan 1999 – Nov 2011

- Class rank: 1/65, Finalist in state-wide *Chemistry* and *Physics and Mathematics* olympiads.

## SKILLS

**Relevant coursework:** Machine Learning, Compilers (academic citation for excellence), Operating Systems (current), Algorithms, Discrete Mathematics in Computer Science, Numerical and Computational Tools for Applied Science, Linear Algebra with Applications, Artificial Intelligence (current), Computer Architecture.

**Programming Experience:** *Advanced:* Python (scikit-learn, pandas, numpy, django), Kotlin, Java, C, Matlab. *Intermediate:* Javascript, HTML & CSS, Shell script, Y86 (subset of X86 assembly), *Beginner:* C++.

**Other skills and tools:** Basic database management (SQL, MongoDB), AWS instance management,  $\text{\LaTeX}$  typesetting, Vector illustration, Data visualization (Tableau, Python, Matlab), Flex & Bison (parser-creating tools), basic digital logic circuit design, basic Android application development.

## WORK

### EXPERIENCE

**Jupiter Technologies**, Chicago, IL

Summer software developer intern (Kotlin, MySQL, AWS instance management)

Jun 2016 – Aug 2016

- Created and maintained company's main data-gathering pipeline, which crawled, parsed, and uniformized large volume of html files created by non-technical users. Pipeline also identified usable files, extracted and maintained useful metadata and analytics, and applied mobile-friendly responsive stylesheets to resulting files.
- Maintained MySQL database and search index of files to show in production website. Generated additional search metrics such as each files's usage friendliness on mobile, and ensured content complied with legal requirements.
- Identified and controlled performance issues, e.g., files too large to load reasonably fast on mobile.

**Dartmouth College Computer Science Department**, Hanover, NH

Section leader for Introduction to Programming and Computation (Python)

Mar 2015 – Jun 2015

Section leader for Problem Solving via Object-Oriented Programming (Java)

Jan 2016 – Mar 2016

- Guided students in understanding course material and cemented their knowledge by leading them through programming exercises. Assisted students in improving and fixing their code for course assignments in weekly help sessions.
- Graded students' homework and exams; gave individual student feedback to professor and students.

**Dartmouth College Spanish Department**, Hanover, NH

Apprentice Teacher

Sep 2013 – Mar 2015

- Challenged students orally in Spanish to improve their language proficiency several times per week, and monitored and evaluated individual student performance.

## PROJECTS

**Agora student marketplace.** Python, django, django-rest-framework

- Designed and implemented backend/database models for a college e-commerce site.
- Designed and implemented secure REST API allowing front-end access to user and product listing information.

**Compiler for C subset.** C, flex, bison

- Implemented during the course of a term a basic compiler for a subset of the C language for *Compilers* class.
- Implemented front-end (parsing, syntactic analysis), internal representation (abstract syntax trees, three-address code), and back-end (translation to assembly) with another student for term-long project.

**Soccer transfer analytics** MongoDB, Javascript

- Currently implementing application to parse and aggregate soccer transfer market transactions in a MongoDB database, and allow users to query for hard-to-find analytics and trends, e.g., yearly price changes for a particular player position.

**Machine Learning Kaggle Competition (Home Depot's Product search relevance).** Python, Matlab.

- Predicted search relevance values for pairs of search terms and returned products by using methods such as decision trees, neural networks, and adaboost regressors.
- Cleaned and helped extract numerical features from text input using natural language processing techniques.

## CAMPUS

### ACTIVITIES

**World Outlook Undergraduate Journal of International Affairs**, Dartmouth College

Executive Editor, Web manager, Layout designer

Mar 2014 – Jun 2017

- Maintained organization's web presence, arranged journal's cover and created other graphic materials.
- Led editing groups in editing and proofreading selected papers. Selected papers to be published.

## LANGUAGES

Native Spanish, intermediate French, beginner Korean, beginner Latin.