ALEXANDRA DELUCIA

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TECHNICAL SKILLS

Languages: Python, Java, C
Data Science: Python (pandas, scikit-learn), machine learning
Developer Tools and Skills: Git, Linux, Eclipse
Web Development: HTML5, CSS, Bootstrap, PHP, MySQL. Familiar: JavaScript/jQuery, Jekyll
Miscellaneous: Adobe Creative Suite/Lightroom, Photography, Hiking, Scuba Diving

EXPERIENCE

Dredze Group – Johns Hopkins University   **Aug 2019—Present**
Minerva Research Initiative Grant
- Model a population using Twitter data to predict disruptive political events (GDELT)
- Joint effort with Johns Hopkins University Applied Physics Laboratory's Crystal Cube project

Carmen: Twitter Geolocations
- Updating the Carmen Twitter user geolocation tool to work with GeoNames location database

Los Alamos National Lab – Los Alamos, New Mexico
Post-Baccalaureate – High Performance Computing Design   July 2017—Aug 2019
- *Revere*: a proof of concept machine learning model that predicts whether a user's HPC job will fail with 30 minutes of lead-time. *Revere* is currently in production.
- Analyzed HPC Consult tickets for problem trends and created a proof of concept model for detecting similar tickets. Worked with the Consulting Team on ideas for a new ticketing system.

Undergraduate Intern (SULI Program) – High Performance Computing Design   May 2017—Aug 2017
- Created a proof of concept model to predict the outcome of an HPC job based on engineered features from its corresponding system log messages
- Continued the research as my senior honors thesis

NextEra Energy Resources – Juno Beach, FL   **May 2016—Aug 2016**
IT Business Systems Analyst Intern – Power Generation Division/Information Management Applications Team
- Participated in a Big Data Proof of Concept to switch from Oracle to a near-real time streaming stack using Kafka, Spark, and Cassandra
- Training: Six Sigma Yellow Belt, Agile, SQL

Information Technology – Rollins College   **Jan 2015—May 2017**
Work Study
- <u>Telecommunications:</u> Set up voice and data networks by running, pulling, and terminating cables and installing telecommunications equipment
- <u>User Services:</u> Assisted customers with I.T. issues in person and over the phone and created detailed "tickets" with the customer's issue, which were sent to the technicians.
- Learned patience and other interpersonal skills from interactions with frustrated customers

EDUCATION

Johns Hopkins University – Baltimore, MD   **Aug 2019—Present**
PhD in Computer Science
- Center of Language and Speech Processing (CLSP)
- Advisor: Mark Dredze

Rollins College – Winter Park, FL   **Aug 2014—May 2018**
B.A. in Computer Science and Mathematics, Summa Cum Laude with Honors in Major
- Senior Thesis: *High Performance Computing Job Outcome Prediction by Mining System Logs*
- Outstanding Senior in Science and Mathematics Division (2018)
- William R. and Marcelyn L. Gordon Mathematic Award (2017)
- Junior and Senior Award for Outstanding Academic Achievement in Computer Science (2017-2018)

don Quijote Language School - Madrid, Spain   **May 2015—Jun 2015**
- Studied Spanish at a summer abroad program through Rollins College

ADDITIONAL EXPERIENCE

Computer Science Education Reading Group – Johns Hopkins University   **Spring 2020**
- Reading group with teaching faculty with a focus on how to conduct CS education research

Student-Faculty Liaison Committee Member – Johns Hopkins University   **Feb 2019—Present**
- TBA

CLSP Visit Weekend Committee Member – Johns Hopkins University   **Aug 2019—Present**
- Assisted the planning and execution of the PhD visit weekend for prospective students

Association for Computing Machinery Student Chapter – Rollins College   **Aug 2014—May 2018**
President, 2016—2018
- Coordinated field trips, guest speakers, social events, and student-lead workshops with fellow officers to further peers' computer science knowledge and experience outside of the classroom

Google IgniteCS Grant Program – Rollins College   **Spring 2017 | Fall 2017**
- Teach basic coding concepts to elementary school kids in the Orlando school system

Tutoring and Writing Center – Rollins College   **Aug 2017—May 2018**
- Assisted struggling peers in understanding computer science and mathematics course material

Full STEM Ahead Immersion – DeKalb International School in Atlanta, GA **Spring Break 2016**
- Volunteered at an international school and taught English and Math to newly immigrated children