Austin Leal

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EDUCATION:

Georgia Institute of Technology, Atlanta, GA

- M.S. Computer Science – Machine Learning — Aug. 2018 – May 2019 (Expected)
- B.S. Computer Science – Theory and Systems & Architecture, GPA: 3.86/4.0 — Jun. 2014 – May 2018
- ML Courses: ML, ML for Trading, Knowledge-based AI, Computer Vision, Data and Visual Analytics
- CS Courses: High-Performance Computing, Compiler Design, Data & Visual Analytics, Adv. Operating Systems, Adv. Algorithms, Automata and Complexity, Processor Design with FPGAs
- Math Courses: Combinatorial Analysis, Second Course on Linear Algebra (Proof-based)

EXPERIENCE:

Addepar, Inc., New York, NY

Software Development Engineer Intern — May 2018 – Aug. 2018

- Created endpoints to dynamically identify where attributes are used within an instance of Addepar
- Created frontend component to select, retrieve, and download usages

Amazon.com, Inc., New York, NY

Software Development Engineer Intern — May 2017 – July 2017

- Developed a visualization tool for inspecting aggregated data from multiple storage locations
- Created new service-oriented architecture (SOA) API endpoints to support this visualization tool

Alternative Computing Technologies Lab at Georgia Tech, Atlanta, GA

Undergraduate Research Assistant — May 2016 – May 2018

- Extended the compiler for deep learning framework DNNWeaver, an open-sourced FPGA-based hardware accelerator for deep neural networks (DNN), to accept additional DNN Caffe specifications
- Created an object-oriented language compiler with two other researchers
- Modified a Bluetooth C library for Linux to communicate with an Arduino robot

High-Performance Architecture Lab at Georgia Tech, Atlanta, GA

Undergraduate Research Assistant — May 2016 – Aug. 2016

- Updated an outdated Android usage logging app to work on the latest versions of Android OS
- Added save logs and anonymize apps features to enhance app functionality

Cisco Systems, Inc., Lawrenceville, GA

Programming Intern — Aug. 2013 – Apr. 2014

- Collaborated with another intern to create a program to upload, process, and display videos with a system written in HTML, CSS, JavaScript (jQuery), and SQL

PROJECTS:

Antidote, HackGT — Sept. 2016

- Developed a web app to display drug related tweets on a heat map using Twitter API, SKLearn machine learning, and Google Heat Maps API to get the tweets, narrow them by user's intent, and display the results

GTMovies, Objects and Design Class — Jan. 2016 – Apr. 2016

- Developed an Android app to recommend movies to registered users based on user's major
- Developed in a team of five as semester-long project using Agile practices (Scrum)

SKILLS:

Programming Languages:
Proficient: Java, C/C++, Verilog, Python
Knowledgeable: MATLAB, HTML/CSS
Familiar: PHP, LaTeX

Libraries: NumPy, Matplotlib, OpenCV
Software: Autodesk AutoCAD, Autodesk Inventor
Foreign Language: Advanced Level Spanish

ACTIVITIES:

GT Hyperloop: *Electronics Team Lead*; lead four sub-teams composed of 2-3 people each — Aug. 2018 – Present
HackGT: Built Antidote, a web app to map drug-related tweets to predict overdose locations — Sept. 2016
HackDuke: Built Learning Paths, an Android app to post self-learning guides — Nov. 2015