

Justin Legaspi Tamayo

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OBJECTIVE

To secure an entry-level position in back-end software development starting August 2018.

EDUCATION

Georgia Institute of Technology, Atlanta, GA

M.S. in Electrical and Computer Engineering

May 2018

B.S. in Computer Engineering, Honors Program, GPA: 3.97

May 2017

WORK EXPERIENCE

Graduate Teaching Assistant - Georgia Tech, Atlanta, GA

Fall 2017 - Present

- Hold office hours and grade assignments for ECE 3020, a discrete math and algorithms course

Software Developer Intern - Tradeweb, Jersey City, NJ

Summer 2017

- Created a Python program that parses C++ class files and exports data member info to JSON
- Redesigned a C++ program that logs low-latency messages (LLM) internal to a fixed-income trading platform
- Refactored procedural code as object-oriented in order to use latest SQL and LLM libraries

Applications Engineering Intern - Texas Instruments, Dallas, TX

Summer 2016

- Benchmarked the dual Ethernet performance of ARM Cortex-A processors under broadcast storm conditions
- Wrote bash scripts and used Unix utilities such as iperf to automate measurements
- Ran BIOS tests on TI's upcoming ARM Cortex-A15 processor

Computer Engineering Intern - BIT Systems, Sterling, VA

Summer 2015

- Created a GUI application in Python and Qt to safely edit XML files containing RF signal parameters
- Designed an X-Midas program that generates simulated RF recordings

PROJECTS

Bridge Inspection Robot, C, ECE Senior Design

Spring 2017

- A magnetized robot that traverses steel bridges to record structural vibrations
- Developed C programs for TI MSP432 microcontroller, accelerometer, IR sensors, XBee module, etc.
- Wrote code for piping accelerometer data sampled at 1 kHz to SD card via a double buffer
- Multi-threaded all programs via TI-RTOS

DART Bus Stop Assistant ("Darcy"), Python, TI Intern DIY Competition

Summer 2016

- Amazon Alexa-powered voice app that returns the time for the next arrival at any Dallas bus stop or train station
- Runs on a BeagleBone with speaker/microphone and a custom PCB, all secured upon a 3D-printed mount

EXTRACURRICULARS

President (Former) - ECE Ambassadors

Spring 2014 - Present

- ECE Ambassadors supports GT's ECE community via admissions events and student outreach
- Duties included organizing student tours, hosting workshops, and managing the mentoring program

Chancellor - Georgia Tech Knights of Columbus

Fall 2017 - Present

- Duties include recruiting members and coordinating events for the Georgia Tech Catholic Center

Mathematics Tutor - Cristo Rey Atlanta Jesuit High School

Fall 2014 - Spring 2017

- Volunteered weekly to help underprivileged students in algebra and geometry

Violist - GT Symphony Orchestra and Chamber Strings

Fall 2013 - Spring 2016

SKILLS AND AWARDS

Programming

Fluent: C, C++, Python

Prior Experience: HTML/CSS, Java, MATLAB, Microsoft SQL, MIPS Assembly, VHDL

Software

Amazon Alexa, AWS Lambda, Linux/Unix, Numpy/Scipy, PubNub, Quartus II, Qt, Tervela LLM, Wireshark

Honors and Awards

ECE Faculty Award - Given to the ECE senior who has contributed the most to the school's educational environment

Outstanding ECE Junior Award - \$1000 scholarship from Eta Kappa Nu to a student of academic excellence, character, and service

Convocation Speaker for the GT Class of 2018 - Delivered the sophomore welcome speech to 2,700 new students in 2014