DANIELA ISABEL TRAVIESO

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EDUCATION

University of Florida, Bachelor of Science in Computer Science, GPA: 3.37/4.0 *Graduation: December, 2019*

- **Coursework** – Senior Project, Numerical Analysis, Operating Systems, Programming Language Concepts, Object-Oriented Programming, Software Engineering, Computer Aided Modeling, Databases, Microprocessor Applications, Computer Organization, Data Structures and Algorithms
- **Languages and tools (in order of proficiency)** – C++, Python, OCaml, SQLite, Java, ANTLR4, Javascript, MEAN stack, React JS, Material UI, Electron, HTML/CSS, C, assembly, and Blender

EXPERIENCE

Software Engineering Intern at Google, Driving Quality (Maps), Google Seattle Office *May, 2019 – August, 2019*

- Created a traffic layer microservice in C++ from the components of the existing service to display more traffic.
- Optimized the microservice for rendering traffic on the roads by stripping out unnecessary components/data.
- Load tested the traffic layer server on a distributed system to ensure it could handle peak QPS/CPU usage.
- Deployed the traffic layer server in a Google Maps canary environment for testing on production quality machines.
- Utilized existing turn speeds to render turn lane data onto Maps by calculating an offset and drawing points.
- Reduced the size of the world road index by removing unnecessary data (bike lanes, rail lines) for driving traffic.
- Built a library to compare two temporally misaligned speed observations by developing an algorithm and writing a test suite to cover the scope of the library's use cases.

Engineering Practicum Intern at Google, App Engine SRE (GCP), Google San Francisco Office *May, 2018 – August, 2018*

- Automated 75% of a process by which App Engine is decommissioned from a zone.
- Impacted the team's ability to meet quarterly OKRs by laying the foundation for this mission-critical project, discovering new/hidden dependencies, and correcting mistakes in the existing documentation.
- Used Python, automation frameworks, protocol buffers, and company APIs to implement this project. Unit tested code using mock RPC calls and golden data.
- Co-designed a graph which detailed the steps to be automated ('nodes') and their dependencies.

Teaching Assistant, Programming Fundamentals 2, University of Florida *August, 2018 – December, 2018*

- Employed for 15 hours/week as an engineering tutor to teach, grade, proctor, and help students in a class where they learn C++ and simple data structures/algorithms.
- Responsible for leading 3 discussion sessions where students receive help on their lab and take a lab quiz.
- Programmed a script using Python and the Canvas API which simplified the grading process substantially.

Polysubstance Abuse Application, Freelance Project for Dr. Cottler, Associate Dean for Research - CPHHP *February, 2019 – April, 2019*

- Contributed to the development of an application which intends to modernize a research group's ability to collect data from survey participants about their concurrent drug use.
- Utilized Agile development to develop new versions after client-developer meetings and user-experience testing.
- Completed various user stories by writing code using React JS, Electron, and Material UI components to improve the UI/UX. Some stories included designing a config file for technical researchers or creating a stepper progress tracker after collecting feedback from focus groups.

LEADERSHIP

President, Former Vice President and Outreach Chair, Association of Computer Engineers (ACE) *January, 2017 – Present*

- Elected to the position of President. Responsible for leading professional development and mentorship.
- Mentored new CS students for 6 consecutive semesters as a part of ACE's mentorship program.
- Designed various tutorials such as a personal website tutorial, Python web scraping workshop, AngularJS tutorial, and a chatbot tutorial.
- Founded a Google igniteCS chapter to pioneer a 5 week VEX iQ program at a middle school to expose mentees to STEM and provide leadership opportunities for mentors.
- Headed the igniteCS program and delegated responsibilities to a group of 5 student leaders.
- Organized 10+ events to teach kids with VEX robotics, Snap Circuits, and Hour of Code workshops.
- Nominated for the University of Florida's 'Club Member of the Year' for work involving ACE (2018).