Jorge A. Eguiguren

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Education

Tufts University, School of Engineering | GPA: 3.94   **Medford, MA**
Bachelor of Science in Computer Science & Bachelor of Science in Quant. Economics   Expected: May 2020
Relevant Courses: Machine Structure & Assembly Language, Algorithms, Data Structures,
                         Operating Systems, Web Programming, Digital Logic Circuits, Linear Algebra.

Work Experience

Federated Wireless   **Boston, MA**
Engineering Intern   May 2018 - Present
- Implement test harness suites to trigger, monitor, and verify software call-flows for the Cloud Team.
- Design APIs to facilitate deployment procedures, enhancing reliability and speeding up the process.
- Engineered the back-end server of a full-stack Interop Web APP, which provides the Operations Team with a remote verification tool without the need of coordination with engineers.

Tufts Department of Computer Science   **Medford, MA**
Teaching Assistant, Data Structures & Intro to CS   Jan. 2018 - Present
- Hold weekly office-hours and grade student's coding course-work (Python & C++) and exams.

Quito Stock Exchange   **Quito, Ecuador**
Marketing & Sales Department Intern   July 2016 – Aug. 2017
- Developed an alternative fee system that appeared more attractive to other trading agents while also aligning to the institution's financial objectives.
- Modeled the costs and disadvantages that small firms face when entering the Corporate Bonds Market.

Skills

Programming Languages: C, Python, C++, JavaScript, HTML, CSS
Software Services: Amazon Web Services, Git, MongoDB
Languages: Spanish (native speaker), English (fluent)

Projects

Image Compressor/Decompressor:
- Compresses a PPM image by transforming color spaces and packing 4-pixel blocks into 32-bit words.
- Implemented in C to take advantage of low level machine representations of numbers.

Universal Machine Emulator:
- 3-phase project centered around the software implementation of a simple virtual machine.
- Designed to understand machine instructions, analyze and improve performance, and code in assembly language.

Sublet-Browser Web App:
- Full-Stack implementation of a web platform for college students to post and find rooms off-campus.
- Server-side written in NodeJS with the Express framework, using a NoSQL database.

Organizations & Additional Information

Tufts International Development
- Implement a sustainable project of Digital Libraries in the Coastal region of Ecuador, in collaboration with Libraries Without Borders and AVANTI (Ecuadorean NGO).

Tufts with Rwanda Fellowship
- Ignited action within the Tufts community to raise awareness regarding past and present mass atrocities.

Interests: Latin American Culture, Literature, Soccer