**Sami Ascha**     33 Teele Ave, Somerville, MA 02144**;** 440.725.2586**;** [sami.ascha@tufts.edu](mailto:sami.ascha@tufts.edu)**;**

# Education

**Tufts University - Medford, MA; GPA: 3.4**
**Computer Science (BS) and International Relations (BA); Graduating December 2019**
Relevant Coursework: Computer Architecture, Assembly Language, Data Structures, Discrete Math, Computation Theory, Computer Algorithms, Artificial Intelligence, Cybersecurity, Calculus I/II

# Experience

**UBS**                                                                                Software Engineering Intern, Summer 2018
As part of the Analytics Technology team, I used SQL query engines like Impala and Hive to transform data on our team's Hadoop cluster. I also worked on MicroStrategy reports and contributed to design documents outlining a new database framework. Other projects included identifying and implementing SQL unit tests, data lineage reports, and an office resources service UI developed in Javascript as part of the intern hackathon.

**Tufts University Financial Aid Office**                          Student Employee, June 2017 – May 2018
Responsible for data analysis and organization of highly confidential loan information through a variety of restricted databases utilized by the university. Mostly excel work and updating accounts through UAS (University Accounting Service).

**Jusoor for Syria**                                                                        Assistant Instructor, Summer 2016
I spent two months in Eastern Lebanon working as an assistant teacher instructing Syrian refugees (ages 6-13) in areas such as English, general science, and arts/crafts. Jusoor, the NGO I worked for, operates several refugee schools near the Syrian border.

**Tufts Financial Group**                                                              Investment Analyst, Fall 2015
Analyst for TFG's energy sector. Assisted with two stock pitches – Sempra Energy, a natural gas utilities company based in California, and Cheniere Energy, an international LNG provider.

# Skills & Interests

- Coding Experience: C, C++, R, Python, Javascript, HTML/CSS, SQL, Git version control, shell
- Data Science/Database Tools: Hadoop, Impala, Hive, MicroStrategy, NumPy, SciPy, R, SQL
- Language Experience: Arabic (fluent), Spanish (intermediate)
- Certifications: Bloomberg Market Concepts, CITI Program Research Ethics and Compliance Training
- Other: MS Office Suite, Adobe Photoshop and After Effects

# Notable CS Projects

Lossy Image Compressor (~2.8% loss after decompression)          (C)
Geolocation Database Server using MongoDB and Google Maps API     (Javascript/Python)
SQL functionalities (relational algebra)                         (C++)
8-register Universal Machine and Assembler                       (C)
Z-Score Report Automation API                                    (Hive/SQL, MicroStrategy)