

Sami Ascha

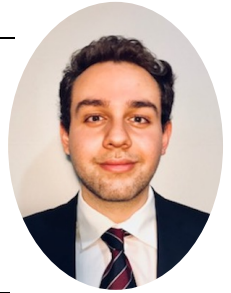
// 33 Teele Ave, Somerville, MA 02144 // 440.725.2586 // sami.ascha@tufts.edu // samiascha.github.io //

Education

Tufts University

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

Fidelity Investments

Data Engineering Intern, Summer 2019

Use Python, R, and various SQL frameworks to develop database models, analytics and visualization components in order to gain insight into data that can be transformed into business intelligence. I am also gaining exposure using RESTful APIs and Docker for deploying web applications.

UBS

Software Engineering Intern, Summer 2018

As part of the Analytics Technology team, I used SQL query engines like Impala and Hive to transform and analyze upwards of two million daily revenue reports 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

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 the University Accounting Service (UAS).

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.

Skills & Interests

Coding Experience: C, C++, R, Python, Javascript, HTML/CSS, SQL, Git version control, shell

Data Science/Databases: Hadoop, Oracle, Impala, Hive, MicroStrategy, NumPy, SciPy, R, SQL

Foreign 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, Agile development

Notable CS Projects

Lossy Image Compressor (~2.8% loss after decompression)

(C++)

Geolocation Database Server using MongoDB and Google Maps API

(Javascript)

Internal Server Heatmap and Storage Timeline

(Python backend, Angular frontend)

8-register Universal Machine and Assembler

(C)

Z-Score Report Automation API

(Hive/SQL, MicroStrategy)