SHAIKAT ISLAM

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EDUCATION

Tufts University   Medford, MA
BA Computer Science/Pre-Med Track, Neubauer Scholarship (1% acceptance)   Sep 2017 - May 2021

Stuyvesant High School   New York, NY
GPA: 95/100   Sep 2013 - June 2017

WORK EXPERIENCE

Oscar Health   Remote
Software Engineering Intern (Search Team)   June 2020 - Aug 2020

- Implemented new ElasticSearch Index spanning multiple business-oriented entities leading to a 5 percent increase in user selection rate
- Revamped React/React Native frontends to incorporate new search indices and features, increasing search view rate
- Winner of internal company Hackathon (Homeroom), building a scheduling framework for ERG-oriented events with Slack/Google Suite cross functionality
- Maintained Search team owned services and databases, implementing some new ML-oriented fields within our existing indices

TripAdvisor Inc.   Needham, MA
Software Engineering Intern   June 2019 - August 2019

- Updated internal metrics framework for error reporting on Grafana
- Implemented internal image updating service, utilizing postgres and AWS on the backend to update, delete, or store 5,000,000+ images served by TripAdvisor's CDN
- Implemented multiple splice tests on the backend to redirect traffic to pages served to millions of users to determine revenue effects
- Automated revenue analysis on 400,000+ mismatched hotels using Apache Hive and Python scripting, and automated hotel matching on Google Hotel Ads using Jenkins and Selenium to determine valid Google Maps Places URLs for mismatched properties

SKILLS

Programming Languages/Frameworks:	Java, Python, React Native, C/C++, Bash Shell Scripting, SQL
Tools:	Git, Jekyll, Jenkins, Apache Mesos, Apache Thrift, gRPC
Languages:	English, Bengali, Spanish

PROJECTS

JUnit Implementation *Java*
Implemented own version of JUnit, which performs integrated unit testing for Java programs, as well as Quickcheck style random test generation.

Multithreaded Regular Expression Matcher *Java*
Built a nondeterministic finite automaton (NFA) representation, along with a translator to translate NFAs into regular expressions and a multithreaded matcher to match regular expressions to strings.

Java on Rails *Java*
Built a basic web server using the model-view-controller software architecture in Java.

Rap Engine/RPG *Java*
Terminal based RPG game that processes user language and checks for multiple types of rhyme, consonance, assonance, and flow, using the Carnegie Mellon Pronouncing Dictionary.

HONORS AND EXTRACURRICULARS

Japan Center Essay Competition at Stony Brook University   Stony Brook University
Wrote two award winning short form essays and had the chance to dine at the Ambassador to Japan's
(Reiichiro Takahashi) residence   April 2013, April 2016

President and Founder of Tufts Bengali Students Association
Co-founded and jumpstarted a community of Bengali students at Tufts University in order to better
support an under-represented, largely first-gen part of the community.   Sep 2018

Winner of Tufts $100K and Ideas Competitions Won the two most prestigious awards (with
seed funding included) from the Tufts Entrepreneurial Center for a healthtech startup that my friends
and I founded.   Nov 2018, March 2020