

# SHAKIL RAFI

[shakilrafi.com](http://shakilrafi.com) · [github.com/srafi1](https://github.com/srafi1) · [linkedin.com/in/srafi1](https://linkedin.com/in/srafi1)

## EDUCATION

### Macaulay Honors College at Hunter College, CUNY

Sep 2018 - May 2021

*B.A. Major in Computer Science, Minor in Mathematics*

*Cumulative GPA: 3.82/4.00, Major GPA: 4.00/4.00*

*Relevant Coursework:* Data Structures and Algorithms (Software Analysis and Design II), Parallel Computing, Big Data, Computer Architecture, Operating Systems

### Stuyvesant High School

Sep 2014 - Jun 2018

### Skills

Languages: Go, Python, JavaScript, C, C++, Java, HTML, CSS, SQL

Technologies: Git, Linux, gdb, Docker, MongoDB, Spark, Lucene, AWS, Express.js, React, Flutter

## EXPERIENCE

### MongoDB

*Remote*

*Software Engineer II*

Aug 2021 - Present

### MongoDB

*Remote*

*Software Engineering Intern - Atlas Search Team (Backend)*

Jun 2020 - Aug 2020

- Achieved **10x** speedup of faceted searches on numeric fields by utilizing **Apache Lucene (Java)**
- Designed query syntax for faceted searches and wrote relevant documentation

### echoAR

*Manhattan, NY*

*Software Engineering Intern (Full Stack)*

Feb 2020 - April 2020

- Reduced required throughput for video streaming by **50%** in the backend (**Java**)
- Created data visualizations in **Angular** along with backend features to support them in **Java**

### Attentive Mobile

*Manhattan, NY*

*Software Engineering Intern (Backend)*

Jun 2019 - Aug 2019

- Enabled 50+ salespeople to access the database by creating an internal Slack Bot using **Python** that translates natural language into **SQL** queries
- Wrote infrastructure to enforce secure access to the main database by assigning roles and permissions to users (based off of AWS IAM permissions)

### Addinex Technologies

*Manhattan, NY*

*Software Engineering Intern (Backend)*

Jul 2018 - Aug 2018

- Wrote and tested API endpoints to serve notification data (**Express.js**, **Mongoose**, **Postman**)

## AWARDS

**HackPrinceton** *Best Use of Blockstack* out of 250+ hackers

Nov 2019

**SBUHacks** *Best Domain Name* out of 200+ hackers

Sep 2019

**HackNY** *Most Technical Hack* out of 300+ hackers

Sep 2018

**HackNYU** *1st place on the Educational Track* out of 500+ hackers

Mar 2018

## PROJECTS

**NLP TF-IDF** ([github.com/kkhan01/nlp-tf-idf-hadoop](https://github.com/kkhan01/nlp-tf-idf-hadoop)) | *PySpark*

Calculate term frequency-inverse document frequency for individual terms from a collection of documents

**Line Forge** ([github.com/srafi1/LineForge](https://github.com/srafi1/LineForge)) | *Go*

Command line graphing calculator

**Pokemon Stay** ([pokemonstay.shakilrafi.com](http://pokemonstay.shakilrafi.com)) | *React, Go, MongoDB*

Online game in which the player runs around in Google Maps to catch Pokemon

**Color Sprout** ([play.google.com/store/apps/details?id=com.shakilrafi.color\\_sprout](https://play.google.com/store/apps/details?id=com.shakilrafi.color_sprout)) | *Flutter, Flame*

A puzzle game in which you create patterns out of colored tiles