SHANNON LAU

Software Engineer

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- in shanlau
- ○ slau8

SKILLS

Languages

C++
Python
Java
Javascript
Scheme
HTML/CSS

Tools

Flask
SQLite3
MongoDB
Git
MATLAB
Sketch
Adobe Photoshop

Operating Systems

Linux
Mac OS X
Windows

RELEVANT COURSEWORK

Algorithms & Data Structures
Discrete Math
Calculus I, II, III
Software Development
Graphics Algorithms
Electronics in Space
Digital Logic Design
Entrepreneurship Seminar
AP Computer Science

HONORS

OxyGEN Scholar
AT&T

Inductee
ARISTA Honor Society

AP Scholar with Distinction
College Board

Commended Student
NMSQT

EDUCATION

University of Michigan, Ann Arbor, MI — *B.S. Computer Science*
EXPECTED JUNE 2022
GPA — 3.8 / 4.0. Awarded *University Honors* and *Dean's Honor List (College of Engineering)*.

Stuyvesant High School, New York, NY
2018
GPA — 4.0 / 4.0. Graduated with honors in math and science.

PROJECTS

4 GIFS 1 Word ↗

Spin-off of the popular picture guessing game, but with gifs. Integrated with GIPHY and Datamuse API using Python, Flask, SQLite3 and Javascript.

Jimmy Jams ↗

Online platform to request and queue up music for your group in real time. Integrated with Spotify API using Python, Flask, and SQLite3.

Quickr

Conceived and designed concept idea for an iOS app to track daily events of a special needs individual, featuring streamlined logging via NLP. Awarded *Best App Design* by Spark for Autism.

ERS: Electronic Edition

Constructed an electronic game system with physical push buttons to simulate the card game Egyptian Rat Screw. Button lock-out mechanism achieved through digital chips and flip-flops.

Unparagoned ↗

Command-line program that predicts subsequent sentences of a given excerpt by analyzing text frequency. Written in Java using simplified Markov chain data structures.

EXPERIENCE

New York City Transit, New York, NY — *Intern*
JULY 2018 - AUGUST 2018
- Managed confidential database and increased efficiency and accessibility of the file system.
- Analyzed incident claims to determine potential solutions for customers and the company.

StuyHacks, New York, NY — *Sponsorship Organizer*
SEPTEMBER 2017 - JUNE 2018
- Contacted companies requesting monetary and in-kind donations to fund hackathons.
- Oversaw 12-hour and 24-hour events for 300+ high school students across New York City.

JC Sports, New York, NY — *Marketing Intern*
JUNE 2016 - AUGUST 2016, JUNE 2017 - AUGUST 2017
- Improved company branding by designing brochures, flyers, and business cards in Photoshop.
- Consulted clients for quotes, orders, and shipment updates for satisfactory customer service.

EXTRA-CURRICULAR ACTIVITIES

Michigan Flywheel Ultimate Frisbee, Ann Arbor, MI
SEPTEMBER 2018 - PRESENT

Stuyvesant Phoenix Varsity Basketball, New York, NY — *2x Captain*
OCTOBER 2014 - MARCH 2018
Led, empowered, and mentored 12 girls to succeed as a team. Top 20 assists leader in NYC.