SHANNON LAU

Software Engineer

◀ shanlau@umich.edu

in shanlau

C) slau8

SKILLS

Languages

C++

Python

Java

Javascript

Scheme

HTML/CSS

Tools

Flask

SQLite3

MongoDB

Git

MATLAB

Operating Systems

Linux

Mac OS X

Windows

RELEVANT COURSEWORK

Data Structures & Algorithms

Foundations of CS

Probability & Statistics

Intro Data Structures

Discrete Math

Calculus I, II, III

Software Development

Graphics Algorithms

Electronics in Space

Digital Logic Design

Italicized denotes Fall 2019

HONORS

SES Summiteer

Capital One

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 — 3.88 / 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

Gear Coordinator (AUGUST 2019 - PRESENT): Design and order jersey kits, apparel, and gear for 50 players and coaching staff.

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.