

SHANNON LAU

Software Engineer

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🔗 slau8

SKILLS

Languages

C++
Python
Java
Javascript
SQL
Scheme
HTML/CSS

Tools

Flask
MongoDB
MATLAB
Git

Operating Systems

Linux
Mac OS X
Windows

RELEVANT COURSEWORK

Data Structures & Algorithms
Discrete Math
Calculus I, II, III
Software Development
Graphics Algorithms
Electronics in Space
Digital Logic Design
Probability & Statistics
Computer Organization
Computer Science Pragmatics
Engineering Interactive Systems
Italicized denotes Winter 2020

HONORS

Dean's Honor List

University of Michigan,
College of Engineering

University Honors

University of Michigan

Software Engineering

Summiteer
Capital One

OxyGEN Scholar

AT&T

EDUCATION

University of Michigan, Ann Arbor, MI — *B.S.E. Computer Science*

EXPECTED JUNE 2022

GPA — 3.9 / 4.0, Major GPA — 4.0 / 4.0

College of Engineering Honors Program, Minor: Multidisciplinary Design

Stuyvesant High School, New York, NY

2018

GPA — 4.0 / 4.0. Graduated with honors in math and science.

PROJECTS

UFO ↗

Designed, built, and launched an atmospheric measurement device into space to gather data on temperature, humidity, pressure, UV index, GPS coordinates, and more.

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.

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.