


Shannon Lau

Software Engineer

 shannonlau.com
 shanlau@umich.edu
 shanlau
 slau8

SKILLS

Languages

C / C++
Python
Java
JavaScript (ES6)
HTML5
CSS / Sass
SQL
Scheme

Frameworks

React
AngularJS
D3
Flask
MongoDB

Tools

Git
Bash
Jira

RELEVANT COURSEWORK

Engineering Interactive
Systems
[EECS 598](#)

Human Centered
Software
[EECS 497](#)

Data Structures &
Algorithms
[EECS 281](#)

Computer Organization
[EECS 370](#)

HONORS

EECS Scholar Award
[UNIVERSITY OF MICHIGAN](#)

Dean's Honor List &
University Honors
[UNIVERSITY OF MICHIGAN](#)

Software Engineering
Summiteer
[CAPITAL ONE](#)

OxyGEN Scholar Award
[AT&T](#)

EDUCATION

University of Michigan — B.S.E. Computer Science

EXPECTED MAY 2022 // ANN ARBOR, MI

- College of Engineering Honors Program, Minor in Multidisciplinary Design
- GPA — 3.9 / 4.0 Major GPA — 4.0 / 4.0

Stuyvesant High School

2018 // NEW YORK, NY

EXPERIENCE

Comau — Software Engineering Intern

JANUARY 2020 – PRESENT // ANN ARBOR, MI

- Collaborate with a small team of student and industry engineers to spearhead a robotic software system that optically recognizes objects and fills a bin to a high capacity
- Architect and implement a live bin-packing heuristic in C++ that identifies optimal placement locations for a series of items
- Create a command-line interface to iteratively visualize item placements and potential future placements, powered by Processing

University of Michigan, EECS — Teaching Assistant for EECS 281

AUGUST 2020 – PRESENT // ANN ARBOR, MI

- Teach weekly discussion to help students get a deeper understanding of core concepts, including stacks, queues, trees, dynamic programming, and hash tables
- Hold office hours to guide students to improve their code by sharing best practices and teaching common debugging tools

Capital One — Software Engineering Intern

JUNE – AUGUST 2020 // CHICAGO, IL

- Developed an AWS Lambda with Python that processes 3,000+ customer calls each day into visualizable data for Sage, Capital One's call assessment platform
- Built and integrated into the platform audio player a dual-speaker waveform visualizer, call transcription, issue-tagging, and other experience-elevating features with AngularJS
- Interfaced with designers, product managers, and other developers to ensure functional and thoughtful user experiences across our voice-based applications

FEATURED PROJECTS

Touch Connect Four

JANUARY – FEBRUARY 2020

- Multi-touch pad device that utilizes optically detected touch gestures such as tapping and swiping to play Connect 4, built in a team of four using openCV in Python

UFO

FEBRUARY – APRIL 2019

- Atmospheric measurement device powered by a custom circuit board and Arduino, encased in a rigorously tested payload structure, and launched into space

INVOLVEMENT

Michigan Flywheel Ultimate Frisbee

SEPTEMBER 2018 – PRESENT // ANN ARBOR, MI

- As **Gear Coordinator**: Design and order jersey kits, apparel, and gear for 50 players and coaching staff to define the program brand