

SIMON CLARK

clark.si@northeastern.edu | 508-505-6480 | simonclark.dev

EDUCATION

Northeastern University

Sep. '17 — Dec. '21

Candidate for Bachelor of Science in Computer Science, Minor in Professional Presentation

- GPA: 3.99 / 4.00. Dean's scholarship.
- Courses: Computer Systems, Networks, Prob. and Stat., Object Oriented Design, Algorithms, Artificial Intelligence

Class Fellow for Co-op Preparation Class

Sep. '19 — Dec. '19

- Professionally mentored students, reviewed resumes, lead class activities, answered student questions

Teaching Assistant for Discrete Structures

Jan. '18 — Dec. '18

- Provided group and one-on-one tutoring during weekly office hours and large exam review sessions

EXPERIENCE

Seven Eight Capital

Jun. '21 —

Incoming Software Engineering Intern

Facebook

Jan. '21 — Apr. '21

Software Engineering Intern - PHP/Hack

- Replaced script-based e-commerce order platform (that handles thousands of daily orders) with a state machine, leading to an 88% decrease in order processing time
- Enabled orders to automatically resolve from certain broken states which previously required manual resolution

Fidelity Labs

May '20 — Aug. '20

Software Engineering Intern — Ruby on Rails, React

- Developed a fintech product for financial advisors and their clients

Facebook

Jan. '20 — Mar. '20

Software Engineering Intern — PHP/Hack, React

- Upgraded production copyright matching infrastructure to support evaluating test data, then built a visualization of how test matches would be evaluated based on real-world copyright policies
- Upgraded tooling for viewing flagged copyrighted material to support new types of content

Alignable

Jan. '19 — Aug. '19

Software Engineering Co-op — Ruby on Rails, Javascript

- Increased forum email click-to-open rate from 22.2% to 65.3% by building aggregations into email infrastructure
- Implemented a lightweight, just-in-time system to track in-app notifications unread status
- Built new comments section for the forum adding nested comments and pagination while supporting conditionally hiding posts for certain users (shadowbanning)

Alkermes

May '18 — Aug. '18

R&D Applications Intern — Python, Flask, Vue

- Built web app with Flask and Vue, decreasing search and creation time of chemical procedures by 50%
- Created script to reorganize nine years of specific experimental data by using Python and regular expressions, eliminating over 200 hours of manual file transfer

SKILLS

Python, Java, C/C++ (familiar), Ruby on Rails, PHP/Hack, Javascript, React, Rust (familiar), Poker

PROJECTS

Sudoku Solver — Rust

Parallel, memoized, low allocation DFS solver beating sudoku puzzles in 3ms

Ray Tracer — Rust

Parallel ray tracer implementing anti-aliasing, diffuse/metal/glass materials, and a movable camera