

# SIMON CLARK

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## EDUCATION

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### 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

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### Seven Eight Capital

Jun. '21 — Aug. '21

*Software Engineering / Quantitative Developer Intern - Python, Java*

- Integrated new code generation library, increasing developer efficiency and enabling more expressive generation
- Analyzed calibration of US risk model on assets with certain properties

### 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
- 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, eliminating over 200 hours of manual work

## SKILLS

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

## PROJECTS

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### 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