

# Sean Hoerl

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Availability: June - December 2021

## EDUCATION

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**Northeastern University**, Boston, MA

September 2018 - Present

Khoury College of Computer Science

Candidate for Bachelor of Science in Computer Science

Expected 2023

- Courses: Database Design, Computer Systems, Object Oriented Design, Web Development, Algorithms & Data, Logic & Computation, Fundamentals of Computer Science 1 & 2, Calculus 1 & 2
- Honors: GPA: 3.61/4.0, Dean's List
- Activities: Husky Competitive Programming Club

## COMPUTER SKILLS

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**Languages:** Java, SQL, Bash, JavaScript, Python, C, HTML & CSS, Ruby, AMD64 Assembly, Racket, VBA

**Software:** IntelliJ, MySQL, VirtualBox VM, Debian, Vim, Docker, Xterm, Eclipse

**Platforms:** Google Firebase, Solr

**Frameworks:** React, Express JS, Spring, Jenkins, Angular

## WORK EXPERIENCE

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**Clinical Research IO**

Cambridge, MA

Part-Time Software Engineer

Winter & Spring 2021

- Stabilized some of their internal Batch Jobs by reorganizing them into standalone Spring API's using Java
- Increased secure logins by implementing Two Factor Authentication workflows and UI with Google Firebase

**Clinical Research IO**

Cambridge, MA

Software Engineering Co-op

Summer & Fall 2020

- Maintained and refactored live search using Solr and SolrJ for use in their clinical trial recruitment module
- Redesigned a Regulatory Delegation Log algorithm for use in their electronic regulatory module
- Identified and fixed various types of bugs on a daily basis using Java, Javascript, and SQL
- Implemented both the back and front end functionality for billing unscheduled visits in the company's financial module

**Northeastern University**

Boston, MA

Computer Science Tutor and Teaching Assistant

Fall 2019 & Spring 2020

- Tutored students in Fundamentals of Computer Science 2 in both traditional and accelerated model
- Taught students concepts such as Polymorphism, Mutation, Recursion, Equality, and Abstraction
- Hosted weekly office hours to transfer knowledge, motivate, and assist with debugging and assignment planning

**Mercury Systems**

Andover, MA

Software Engineering Intern

Summer 2019

- Eradicated bugs in legacy software using Bash, Python, and Ruby
- Automated nightly testing for computer boards saving a large team of employees over 25 hours each week
- Started migration of company source control from ClearCase to Git

## PROJECT EXPERIENCE

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**Spotify Playlist Cleaner**

Winter 2020

- Designed and implemented a utility tool hosted on personal website to convert Spotify playlists into completely explicit or completely non-explicit
- Effectively implemented secure OAuth authentication for user logins using Spotify's Web API

**Spreadsheet Application**

Fall 2019

- Developed spreadsheet application in Java using Model-View-Controller architecture and Object-Oriented SOLID Principles

## INTERESTS

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90's Hip Hop, 90's Rock, Vinyl, Coffee brewing, Skiing, Video Games, Tutoring at the Boys & Girls Club