

# Sean Hoerl

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Availability: May - December 2022

## 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 Spring 2023

**Courses:** Database Design, Computer Systems, Object Oriented Design, Web Development, Algorithms & Data, Logic & Computation, Fundamentals of Computer Science 1 & 2, Calculus 1 & 2, Linear Algebra, Theory of Computation, Networks & Distributed Systems, Statistics & Probability

**Honors:** GPA: 3.72/4.0, Dean's List

**Activities:** Husky Competitive Programming Club

## COMPUTER SKILLS

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**Languages:** Java, Python, HTML & CSS, Ruby, Javascript, SQL, C, Bash

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

**Platforms:** Google Firebase, Solr

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

**Methodologies:** Agile, Scrum

## WORK EXPERIENCE

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**Mercury Systems**

Andover, MA

Software Engineering Co-op

July 2021 - December 2021

- Leveraged Ruby and Jenkins to build out a framework and application that allows for autonomous testing of BMC functionality on computer boards.
- Saw a need and developed a solution to improve effectiveness and remove errors within the BMC firmware
- Took initiative filling the SCRUM master role for a period and effectively ran SCRUM meetings

**Clinical Research IO**

Cambridge, MA

Part-Time Full Stack Software Engineer

January 2021 - May 2021

- Built and set up an internal tool to upload static images to a servable public directory which increased accessibility and reduced the overall size of the website source
- Increased secure logins by implementing Two Factor Authentication workflows and UI with Google Firebase

Full Stack Software Engineering Co-op

July 2020 - December 2020

- Refactored and fixed live search using Solr and SolrJ for use in the clinical trial recruitment module
- Redesigned a Regulatory Delegation Log algorithm for use in the electronic regulatory module
- Identified and fixed various types of bugs on a daily basis using Java, Javascript, and SQL
- Designed and created 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

September 2019 - April 2020

- 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

June 2019 - September 2019

- 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