

# Zachary Senft

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A dedicated, and driven individual seeking a position in Software Engineering. Both my individual and team accomplishments and activities have prepared me well to work with diverse teams, generate innovative ideas to find the solution others cannot, and see projects through to completion.

## TECHNICAL SKILLS

### Proficient Languages, Tools:

Java

Python

C++

HTML

CSS

### Experienced Languages, Tools:

Matlab

SQL

JavaScript

React.js

Bootstrap

Swing

Swift

PowerBI

Office

**Operating Systems:** Windows, Linux

**Experiences:** Agile, Git, UX/UI Design, Database Management, Data Visualization, IDE's, Anaconda

## EDUCATION

### Johns Hopkins University, Whiting School of Engineering

**Baltimore, MD**

*Master of Science, Computer Science – Software Engineering & Data Science track, 3.9/4.0*

*December 2021*

**Relevant Coursework:** Applied Machine Learning, Statistical Methods, DevOps Secure Development, Principles in Database Systems, Large Scale Database Systems, Data Analysis, Data Visualization, Data Science

### Case Western Reserve University, Case School of Engineering

**Cleveland, OH**

*Bachelor of Science, Mechanical Engineering, 3.4/4.0*

*May 2020*

### St. Ignatius High School

**Cleveland, OH**

*College Preparatory School*

*May 2016*

## EXPERIENCE

### Information Technology & Data Analyst Intern, Johns Hopkins ILLD

*November 2020 – Present*

Developing Python scripts to automate database/dataset cleaning, structured and unstructured, reducing inefficiencies by 23%. Building dashboards to support business analysis via PowerBI and performing funnel analysis for data optimization.

### Software Engineering Intern, Tutor Dudes Services LLC

*June 2020 – December 2021*

Led team of five interns in agile development of Asteroid-Fighter application. Saw project through to completion within tight deadline and launched application via Android Studio in final week. Project completed in Java.

### Engineering Design Intern, Darko Inc.

*January 2020 – March 2020*

Designing and engineering display assemblies using SolidWorks. Rapid prototype development and 3D printing.

### Mechanical Engineering Intern, Tendon Manufacturing Co.

*May – August 2019*

Learned manufacturing processes on shop floor, designed SolidWorks models and engineering drawings to be fabricated.

## TECHNICAL PROJECTS

**Analysis of Machine Learning Algorithms** – Programmed and performed complexity analysis of Linear and LASSO regression algorithms. A solo research project that is in the process of being published. (*Python, Jupyter Notebook*)

**Clue-Less** – Led development for a team of five for “Clue” board-game able to be played across a network. Implemented game logic, objects, client & server interfaces, and interactive board for up to six players. (*Java, Swing, MySQL*).

**WhatsHappenin’** – Social application targeting university audience to post events around campus via a Map interface, to be available on the App Store (*Swift, MySQL*).

**ZachTrack** – Expense tracking and reporting application. Stores user data and generates reports (*Python, MySQL, Text*).

## LEADERSHIP

**CWRU Varsity Men’s Soccer** - Team Captain (2019), All-American (2018), CWRU Athlete of the Year (2018-2019)

**Design and Manufacturing** – Team member in development of combustion engine, solar panel sun-tracking device.

**Volunteering** - SpartanTHON Dance Marathon, Vila Alianca Soccer Clinic (Rio de Janeiro), BARCS Dog Foster

Other Interests: Stocks, Cryptocurrency, Cleveland Sports, Tottenham Hotspur FC, Travel, Music, Competitive LeetCode