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## EXPERIENCE

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### **Machine Learning Research** Summer of 2020

*Northwestern University*

- Currently working on detecting motion of the medial and lateral gastrocnemius and uncertainty in detections using machine learning technology.
- Working alongside graduate student in laboratory setting.

### **EdTech Internship** Summer of 2020

*Strut Learning*

- Currently working on product design and development in preparation for alpha release of EdTech software targeted at public schools.

### **Software Engineer** Summer of 2019

*SpITrak*

- Created application that allows conference speakers to navigate and project submitted presentations.
- Developed in **C#** with .NET and WPF while working alongside the client.

### **Software Engineer** Summer of 2018

*Unitrol Electronics*

- Built and released a product over the summer that allows remote monitoring of weld results.
- Full Stack: developed with **Node.js**, **Express.js** and **MongoDB**.

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## EDUCATION

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### **Niles North High School** 2017 - 2021

*Skokie, IL*

- Dedicated member of many clubs and activities
  - World Qualifying Vex Robotics Team
  - Science Olympiad and WYSE Teams
- 4.81 Weighted GPA, 4.0 Unweighted GPA

#### **Self-Study:**

- Self-taught expertise in: **OCaml**, **Java**, **Python**, **C++**, **C#**, and can easily learn any new languages.
- Various Math and Computer Science courses from **Coursera**, **Edx**, **MIT OCW**, and others.

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## PROJECTS AND ACHIEVEMENTS

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### **Crab**

- Fully functioning compiler and build system for an imperative programming language
  - Developed in **OCaml**

### **Pneumonia Detection**

- Studied various image classification neural networks to find the most cost-efficient network for detection of pneumonia
  - Recognized by Mayor of Skokie for technological achievements
  - Developed with **Python** and **Keras**

### **Mathematical Modelling**

- Ranked top 30 in the nation during 2020 International Math Modeling Competition (IM<sup>2</sup>C)
- Ranked top 8% in 2019 High School Mathematical Contest in Modeling (HiMCM)