

# Erik J. Earl

Erik.Earl@Case.edu  
(858) 650-9500  
www.erikjearl.com

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*Self-directed, creative, hardworking, undergraduate student pursuing a degree in Computer Science with a focus in Computer Systems, Networks, and Security. Looking for an internship or co-op with hands-on industry experience.*

## EDUCATION

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### Case Western Reserve University

Bachelor of Science in Computer Science, Minor in Artificial Intelligence

Cleveland, OH

August 2020–Present

GPA: 3.75

Honors: Dean's High Honors Recognition 2020, 2021, 2022

Relevant Coursework: Data Structures, Algorithms, Computer Logic and Design, Full Stack Web Development, Artificial Intelligence, Operating Systems, Database Systems, MATLAB Programming, Software Craftsmanship

## PROFESSIONAL EXPERIENCE

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### The Lubrizol Corporation

Robotic Process Automation Intern

Wickliff, OH

May 2022 - August 2022

- Developed RPA solutions using Automation Anywhere leveraging Python and VB scripting using core workflow principles that are well structured, maintainable and easy to understand
- Consulted with various department leads to identify automation needs within the company, then designed and implemented efficient solutions addressing their needs
- Developed thorough and organized solution design documentation to capture process architecture and define the automation solution in a high level overview
- Maintained existing automation processes, documented best practices for configuration and deployment

### Sears Think[box]

Prototyping Technician

Cleveland, OH

August 2021 – May 2022

- Provided consultation for prototyping support and equipment, assisted community users through excellent customer service
- Collaborated with coworkers to prototype and develop internal projects
- Operated and performed advanced equipment maintenance on industrial FDM and Polyjet 3D printers, Epilogue Fusion laser cutters

## PROJECTS

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### Website Portfolio

- Designed a personal website to showcase select software project highlights hosted on a GitHub Pages server

### Automated Tactical Battle Simulator

Spring 2022

- Leveraged Java to implement a Q-learning algorithm with linear function approximation reinforcement learning agent to fight a tactical battle situation against other AI agents
- Implemented a forward state space planner using the A\* Search algorithm that finds minimum makespan plans to achieve a given goal

### Application Development Team

Fall 2019

- Student team helped local non-profits design websites and create databases leveraging HTML5, CSS3
- Optimized organization's information storage system, created and managed SQL database

## TECHNICAL SKILLS

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- Java Python MATLAB HTML CSS Git Unix Shell