

# Jimmie Cox

Personal Website | LinkedIn | Github  
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## EDUCATION

### WRIGHT STATE UNIVERSITY

BS IN COMPUTER SCIENCE  
December 2025 | Dayton, OH  
Cum. GPA: 3.42 / 4.0

## SKILLS

### LANGUAGES

Python • GDScript •  
HTML • CSS • Javascript

### SEMI-FAMILIAR WITH

Java • C/C++ •  $\text{\LaTeX}$

### HARDWARE

ESP32 DW1000 UWB Module •  
Raspberry Pis

### VERSION CONTROL

Git • Github Desktop

## COURSEWORK

### UNDERGRADUATE

Intro To Software Engineering  
Senior Design I  
Intro Machine Learning  
Applied Machine Learning  
Introduction to Cyber Security  
Calculus I-II  
Linear Algebra  
Statistics For Engineers

## CERTIFICATIONS

### COURSERA

Machine Learning With Python IBM  
Credential ID: Q7J77RX7HC27  
IBM COBOL Basics  
Credential ID: 6639WCM0P5NR

### RED CROSS

First Aid / CPR  
Certificate ID: 01M5V7L

## MEDIUM ARTICLES

### MACHINE LEARNING

Overfitting vs. Underfitting |

[Link To Article](#)

Supervised vs. Unsupervised vs.

Reinforcement Learning |

[Link To Article](#)

A Simple Explanation of Gradient Descent:

Stochastic, Batch, and Mini-Batch |

[Link To Article](#)

## EXPERIENCE

### WSU CATS IT HELP DESK | SENIOR IT HELP DESK EMPLOYEE

January 2023 – Current | Dayton, OH

- Answered student, faculty, and staff emails, phone calls, and in person questions regarding IT services and software Wright State offers.
- Used Beyond Trust Remote Support software to remote into clients' computers to troubleshoot and fix an array of computer related issues.
- Handled Xerox printer toner cartridges, waste containers, and other Xerox printer parts for the XC400, XC600 and XC8000 series printers.

### HEROUX DEVTEK | MECHANICAL ENGINEERING INTERN

June 2022 – Aug 2022 | Springfield, OH

- Designed 3D animated work instructions using 3D VIA for workers on job floor as the main internship project.
- Participated in a weekly progress report presentation to plant higher ups on the 3D VIA work instructions project.
- Located and documented landing gear parts for a variety of aircraft that were previously undocumented around job floor as the aircraft include the F-35, C-130, B-1B, F-18, F-15, and Boeing 737.
- Cleaned and restocked spill kits around the job floor.
- Helped to write and test an NC program for a CNC machine.

## PROJECTS

### GCTC GODOT PROJECT | PROGRAMMER AND WEBSITE MAINTAINER

January 2025 – April 2025 | Dayton, OH

- Designed and implemented via HTML, CSS, and Javascript the Generic Campus Tour Company (GCTC) website and deployed via github pages. [GCTC Website](#)
- Used the Godot 4.3 game engine to create the 3D nodes that display information about rooms to the user.
- Implemented an Alphabet Trie data structure to search through a list of available room locations the user could select.

### FLOOR PLAN OCR SCRIPT | GCTC FOR INTRO TO SOFTWARE ENGINEERING COURSE

March 2025 – April 2025 | Dayton, OH

- Imported the libraries Poppler and Tesseract for .pdf to .png conversion and optical character recognition.
- Implemented the extraction and storage of data in an excel file along with their x and y coordinates to be used in the Godot project.

### EARTH TERRAIN IMAGE SEGMENTATION | ML FOR INTRO TO MACHINE LEARNING COURSE

August 2024 – December 2024 | Dayton, OH

- Wrote the Python code that pulls from a dataset of terrain images (Kaggle) to build a mask and create terrain segmentation images using an SVM.
- Worked in conjunction with another classmate to create a Springer style report and separate presentation.

## AWARDS

2023	2nd Place / 100 USD	ACM Programming Competition
2022	1st Place / 50 USD	Best Freshman Team ACM Programming Competition
2022	1st Place / 1,500 USD	Climate Change Initiative Design Competition