

# Zachary Wilkerson

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## OBJECTIVE

Seeking a data science position where I can apply my programming and machine learning experience. Prior exposure and interest in natural language processing and web development.

## EDUCATION

### Master of Science in Electrical and Computer Engineering

University of Florida College of Engineering

May 2022

GPA: 3.80/4.00

**Related Courses:** *Fundamentals of Machine Learning, Neural Networks and Deep Learning, Pattern Recognition and Intelligent Systems, Computational Linguistics, Web Crawling and Textual Analysis*

### Certificates:

Machine Learning (ECE)

University of Florida

NLP with Python for Machine Learning Essential Training

LinkedIn Learning

## SKILLS

**Programming:** Python, HTML, CSS, JavaScript, MATLAB, LaTeX

**Tools:** Git, GitHub, Jupyter Notebook, VSCode

**Packages:** Pandas, NLTK, RegEx, Scikit-learn, Keras, TensorFlow, Requests, Selenium

**Languages:** Basic knowledge of Spanish

**Soft Skills:** Leadership, Problem Solving, Presentation, Patience

## RESEARCH

### SmartData Lab @ UF

Gainesville, FL

Researcher - Solar Panel Diagnostics

Jan 2021 - Aug 2021

- Collaborated with 20+ team members across multiple institutions to brainstorm ideas and generate discussion regarding spread-spectrum time-domain reflectometry (SSTDR) technology
- Prepared weekly oral and written reports for team members, as well as quarterly reports for Department of Education, based on key findings
- **Publication:** Scale Transform Signal Processing for Reducing the Effect of Rain on SSTDR Signals, *International Conference on Electromagnetics in Advanced Applications (ICEAA)*

## WORK EXPERIENCE

### Zinkerz, Inc.

Boston, MA

Educator (Previous roles: Content Intern, Academic Advisor)

Aug 2016 - Present

- Taught 3000+ instructional hours in Mathematics and Computer Science courses
- Led 50+ students to achieve a score of 5 on Advanced Placement (AP) exams
- Articulated complex, hard-to-grasp topics to students in a clear and simple manner
- Established rapport and maintained strong relationships with students/parents

### AI Summer Research Experience @ UF

Gainesville, FL

Instructor

Jul 2021 - Aug 2021

- Co-taught 15+ high school students select AI/ML topics through the use of Python programming
- Produced slides and associated collaborative coding notebooks for use throughout the program

### Boston University

Boston, MA

Assistant Volleyball Coach

Sep 2019 - Mar 2020

- Mentored 30+ student athletes on and off the court
- Scheduled, planned, and conducted practice sessions, alongside review and evaluation of game film

## PROJECTS

### Personal Website

- Developed a portfolio website using HTML and CSS to showcase personal web development projects

### MNIST/Kuzushiji-MNIST Classification

- Performed 10-category classification on multiple handwritten digit datasets using multilayer perceptrons, convolutional neural networks, and autoencoders
- Coded using Keras/TensorFlow package in Python

### Nova: A Teachable Agent for Novice Programmers

- Developed a spoken dialogue system, acting as a teachable agent, to allow novice programmers to teach computer science concepts and solving problems while learning
- Conducted user surveys via Qualtrics and used data to inform system development
- Designed using Google's Dialogflow framework with deployed on Heroku using ReactJS and NodeJS