SAMUEL GOEDERT

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SUMMARY

Ambitious senior computer science student with classroom and industry project experience. Proficient in numerous programming languages including Python, Java, and C#. Interested in data science and computer vision.

EDUCATION

BS Computer Science | Minor in Math | Milwaukee School of Engineering | GPA: 3.45 | Spring 2023

WORK EXPERIENCE

Fluid Power Institute Undergraduate Research Associate | May 2021 – Current

- Lead software developer.
- Created Internet of Things for data acquisition, storage, and visualization.
- Researched and implemented machine learning algorithms.
- Created Raspberry Pi hosted webservers.

PROJECT EXPERIENCE

Neural Network for handwritten digit recognition:

- Used Python to develop custom neural network software.
- Designed user interface for drawing numbers so a trained neural network can convert it to text.
- Visualized internal weights into images to study the pattern recognition of the neural network.
- Refactored neural network to generate handwritten digits from text.

Genetic Image Generator/Compressor:

- Developed in Python.
- Created a genetic algorithm to synthesize images.
- Drafted academic paper describing process and results.

Natural Language Processing Text Generator:

- Generated text based off any given dataset.
- Learns word and sentence structure from inputs.
- Used to create text and Unicode emoticons.
- Trained on supercomputer.

TECHNICAL SKILLS

- Languages: Python, Java, JavaScript, C#, C, C++
- Skills: Machine Learning, Computer Vision, Data Science, Natural language Processing
- Environments: Jupyter, PyCharm, IntelliJ, Visual Studio
- Tools: Unix, Git, InfluxDB, MySQL