Taylor Kemp

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EDUCATION

University of Wisconsin-Madison
B.S. Computer Science
Computer Engineering
Mathematics
Expected Grad. May 2020
Cum. GPA: 3.91

SKILLS

Languages:
Java, Python, C
HTML/CSS/JavaScript
Matlab
Verilog

Frameworks:
React-Native
Tensorflow
JavaFX

Other:
Linux, Windows
Oscilloscope

COURSEWORK

Current:
Machine Learning
Linear Programming
Analysis
Microprocessors
Digital Design Synthesis

Prior:
Algorithms
Artificial Intelligence
Data Structures

AWARDS

Hicks, Stratton E. Scholarship
William F. Vilas Scholarship
Claude & Dora Richardson Scholarship

EXPERIENCE

Undergraduate Summer Researcher May 2018 - Aug 2018
The Ohio State University - Columbus, OH
- Developed methodology for application of machine learning to small data systems
- Applied framework to case study involving the automated design of Distributed Bragg Reflectors
- Wrote literature review on machine learning

Computer Science Tutor Jan 2018 – Present
University Learning Center - Madison, WI
- Assisting students with Python, Java, and Matlab
- Helping students understand recursion, data structures, object-oriented programming
- Facilitating group study sessions

Technology Development Program Intern Jun 2017 – Aug 2017
Optum - Minneapolis, MN
- Led investigation into Coordination of Benefits at United Healthcare and its impact on claim closures
- Managed meetings with subject matter experts
- Collaborated on recommendations for next steps with the VP of Digital Solutions

PROJECTS

Reversi
[Class Project] A Java based implementation of the game Reversi. Implemented an AI using alpha-beta pruning for decision making.

Neural Network Application
[Personal Project] Designed a desktop neural network application through Java and JavaFX. Graphical plots were included to show training loss at each iteration. A default dataset of handwritten numbers was included.

Event Based Application
[Group Project] Developed event based mobile application that allows users to create and find events happening around them. Application was designed through Javascript and React-Native.

Ultra Sonic Sensor
[Wisconsin Robotics] Designed hardware for a printed circuit board that operates an ultrasonic sensor used in object detection on a robot used in the Utah Rover Challenge.