

Taylor Kemp | Curriculum Vitae

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Undergraduate computer engineer completing the second year of a bachelor's degree with senior standing. Passionate about machine learning and its application to material design, with strong technical and interpersonal skills for working in a team and successfully completing projects.

Previous Employment

- **University Learning Center** **Madison, WI**
Tutor *January 2018 - Current*
I am passionate about teaching. Having an opportunity to fulfill that as a tutor has and will always be a rewarding experience for me. I currently tutor for introductory computer science courses as well as a course in signal analysis and information processing. As a tutor, I take pride in creating an approachable environment for subjects that may be challenging for students as well as helping students explore subjects they particularly enjoy in more depth.
- **Optum** **Eden Prairie, MN**
Technology Development Intern *June 2017–August 2017*
I investigated the current state of Coordination of Benefits policies and procedures at United Healthcare. I prepared and managed meetings as well as compiled an organized record of my projects findings. At the end of my work, the vice president of digital products at United Healthcare pushed several projects forward as a result of my work.

Education

Academic Qualifications.....

- **University of Wisconsin-Madison** **Madison, WI**
B.S. Computer Engineering , GPA:3.968 *2016–2020*

Notable Projects.....

- **1st year individual project: 'Artificial Neural Network Java application'**
This challenging project took place over the summer following my first year in college. It required excellent organizational skills as well as the motivation to teach myself an entirely new and complex subject. The project involved designing an artificial neural network library in the language of Java as well as a graphical user interface using JavaFX.
- **Mobile App (Ongoing): 'Event Based Social Media App'**
I am part of a team currently developing a social media app with the goal of bringing people closer together through events. I am passionate about this project because I believe that technology should be used to enhance opportunities to be social. I work well as part of the team, contributing new directions and insights as well as taking initiative to set myself tasks when the next stage of the project is not yet clear. As a software developer on this project, I am responsible for expanding existing capabilities for how events are stored and presented in our application.

- **Embedded System design** *'Object sensor module for Wisconsin Robotics University Rover Challenge'*

In the 1st year of my studies, I spent the Fall semester completing an embedded systems project for Wisconsin Robotics. I worked individually designing a circuit using Eagle, a CAD software program for printed circuit board design. I assembled the circuit board using a Reflow Oven as well as a soldering iron to correct any mistakes. I used Atmel Studio to program the microprocessor used on the Printed Circuit Board.

Coursework.....

- **CS 577** *Introduction to Algorithms*
- **CS 540** *Introduction to Artificial Intelligence*
- **Math 475** *Introduction to Combinatorics*
- **Honors Math 376** *Topics in Multi-Variable Calculus and Differential Equations*
- **Honors Math 375** *Topics in Multi-Variable Calculus and Linear Algebra*

Technical and Personal skills

- **Programming:** Python, Java, Tensorflow, C, Javascript, Matlab, Arduino, TeX
- **equipment:** Oscilloscope

Professional Societies and Student Organizations

- Institute of Electrical and Electronics Engineers, 2016 – present
- Wisconsin Robotics Club, 2016 – present

Scholarships and Awards

- Dean's Honor List, College of Engineering, 2016 – 2018
- Claude and Dora Richardson Scholarship, 2017
- Hicks, Stratton E. Scholarship, 2017
- Post-secondary Mathematics Award, 2016