

**Salvatore Skare**  
**Computer Science Student, University of Wisconsin**  
331-725-7520 (sskare@wisc.edu)

**Education**

*Bachelor of Science*  
University of Wisconsin - La Crosse, December 2019  
Concentration: Computer Science  
Minor: Physics with an emphasis in Astronomy

*Doctor of Philosophy - In progress*  
University of Wisconsin - Madison  
Concentration: Computer Science

**Relevant Skills  
and Coursework**

*Courses:*

- Machine learning, covered decision trees, SVMs, k-means, neural networks, CNNs, Q-learning, MDPs, and POMDPs
- Microcontrollers, covered electrical design, digital logic, communication protocols, circuit board design and assembly, microcontroller programming
- Robotics, covered hierarchical and reactive control flow paradigms, map representation, computer vision, and kinematics

*Skills:*

- Extensive experience RNNs, CNNs, and the TensorFlow framework
- Experience with genetic algorithms
- Extensive experience with web development, both LAMP and C#/MSSQL
- Familiarity with with parallel computing, using OpenMPI
- Advanced knowledge of Unix-like operating systems
- Written extensively in C, C#, Java, PHP, Python, and JavaScript

**Research  
Experience**

*Using a Recurrent Neural Network and Articulatory Synthesis to Accurately Model Speech Output*  
Spring 2018 – Fall 2019

**Undergraduate Research with Professor A. Saupé**

- Secured \$11,000 in funding
- Was awarded the Dean's Distinguished Fellow's grant
- Presented poster at the 2018 University of Wisconsin – La Crosse School of Science and Health Summer Undergraduate Research Symposium
- Presented a short talk at the 2018 University of Wisconsin – La Crosse WiSys Quick Pitch Competition and won an award for best short talk
- Presented a talk at the 2019 Midwest Instruction and Computer Symposium and published in the [conference proceedings](#)
- Presented a talk at the 2019 National Conference of Undergraduate Research conference published in the [conference proceedings](#)

**Relevant Work  
Experience**

*Web Developer*  
Fall 2016 – Present  
**University of Wisconsin – La Crosse Communications Department**

- In charge of adding features to and maintaining <https://www.uwlax.edu>
- Worked closely with a diverse team of professionals
- Re-designed internal tooling to increase performance and remove code redundancy

**Extra-curricular  
Activities and  
Hobbies**

Volunteered as web-developer/administrator for NAMI northwoods chapter  
Competed in the International Collegiate Programming Contest  
Amateur Herpetologist  
Designing and building IoT devices for personal use  
Maintaining a small home-lab with web server, DNS, DHCP, and network storage