

# Max WILLIAMS

## PERSONAL DATA

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## WORK EXPERIENCE

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- SUMMER 2019 | Research Intern for PACIFIC NORTHWEST NATIONAL LAB  
*Deep Learning Research*  
Developed novel deep learning models for few-shot image classification tasks.
- SUMMER 2018 | Software Engineer for UNIVERSITY OF KENTUCKY  
*Material Science Software Development*  
Developed user-facing software for managing machine learning models and data workflows, balanced client's needs with a strict timeline.
- FALL 2017 | Part Time CS Intern for UOFL BIOINFORMATICS LAB  
*Academic Writing, Programming TensorFlow Models*  
Wrote code for RNA classification using DNN, processed CSV files using Python, and created LaTeX and MS Word documents for academic publication.

## RELEVANT COURSEWORK

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### University of Louisville, Kentucky

Undergraduate Degree in Computer Engineering and Computer Science

CECS 593 Independent Study in Artificial Intelligence Safety and Security  
CECS 419 Intro to Algorithms  
CECS 310 Discrete Structures  
ENGR 205 Differential Equations for Engineering  
MATH 311 Intro to Higher Math  
CECS 302 Data Structures

GPA: 3.497/4.0

## COMPUTER SKILLS

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Basic Knowledge: C, C++, JavaScript,  $\LaTeX$   
Intermediate Knowledge: Common Lisp, NumPy, scikit-learn,  
Jupyter Notebooks, Git, Arduino, TensorFlow, PyTorch  
Extensive Knowledge: Python, Linux Core Utils, Vim

## AWARDS AND ACTIVITIES

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ROTARY STUDENT EXCHANGE 9-month term abroad attending high school in Thailand  
FIRST AUTHOR "Optical Illusions Images Dataset" in INSAM Journal  
SECOND AUTHOR "circDeep: Deep learning approach for circular RNA classification  
from other long non-coding RNA" in Oxford University Press

RIVER CITY ROCKETRY Payload and Telemetry Design  
EAGLE SCOUT Highest rank in Boy Scouts of America  
FIRSTBUILD HACK THE HOME Best Digital Experience and second place overall, 2017  
COMPETING IN VEX WORLDS 2014 (by winning state tournament)  
2015 (by winning Autonomous Skills Challenge)

## LANGUAGES

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ENGLISH: First Language  
THAI: Conversational, Literate  
CHINESE: Basic Knowledge  
JAPANESE: Basic Knowledge

## INTERESTS

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Hackathons, AI Safety, Reinforcement Learning, Genetic Algorithms,  
Robotics, Deep Learning, Artificial Intelligence, Bicycling,  
Math Puzzles, Swing Dance, International Travel, Memetics