

Henry C. Wong

henrycwong.com
henrycwong@mst.edu

309-750-0080
linkedin.com/in/henrycwong

EDUCATION

M.S. in Computer Science

Missouri University of Science and Technology
GPA: 3.8/4.0

Aug 2020 - May 2021
Rolla, MO

B.S. in Computer Science

Missouri University of Science and Technology
Major GPA: 3.4/4.0 — Cumulative GPA: 3.2/4.0

Aug 2016 - August 2020
Rolla, MO

Deep Learning Specification Certification (deeplearning.ai)

July 2020

Interim Secret Level Government Clearance (Department of Defense)

July 2018

Machine Learning Certification (Stanford University)

Aug 2017

PUBLICATIONS

Henry Wong, Tony Luo. "Man-in-the-Middle Attacks on MQTT-based IoT Using BERT based Adversarial Message Generation." Twenty Sixth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 3rd AIoT Workshop, August 2020.

EXPERIENCE

Missouri University of Science and Technology

Rolla, MO

Teaching Assistant

December 2019 - Present

- Taught for a 104 student graduate level Introduction to Artificial Intelligence course
- Graded AI code line by line providing a code review for every student
- Taught Introduction to Programming teaching fundamentals in C++ programming

Liberty Mutual

Portsmouth, NH

Cyber Security Data Analyst Intern

May 2019 - Aug 2019

- Analyzed data trends to finalize deals on authentication and user account services
- Saved more than \$3,000,000 in password reset and training resources by developing a password validation web app using haveibeenpwd API and password creation research
- Won both 3rd Place and Employee's Choice at Liberty Mutual's Hackathon
- Used Splunk and Python to analyze authentication trends of over 50,000+ accounts to spot irregularities and vulnerabilities in password reset systems

The Boeing Company

St. Louis, MO

Cyber Security Intern

May 2018 - Aug 2018

- Secured multiple multi-million dollar projects for Department of Defense clearance
- Enforced the NIST Risk Management Framework for Security Inspections to secure and pass every government classified program at Boeing
- Slashed 3-10 hours per inspection by analyzing data on inspection practices

State Farm

Bloomington, IL

Software Engineering Intern

May 2016 - Aug 2017

- Saved 24 hours per week for IT employees by automating Test Environments in JavaScript
- Reduced help desk wait time by developing a Machine Learning chat bot for policy inquiries
- Designed an interactive Cyber Security lab for 100+ children from The Boys and Girls Club
- Created 2D game promoting State Farm's motorcycle insurance through safe driving
- Cut load time for over 50 tools by 70% by re-engineering Perl/CGI automation tools
- Built Xbox Kinect application using Java for State Farm PR Events

PROJECTS

www.MoData.blog

Rolla, MO

Editor-in-Chief

Sept 2017 - Present

- Founded a collaborative data blog called MoData.blog with a focus on Data Science
- Held work sessions and created new methods to get peers inspired by data
- Built all systems from the ground up including websites, servers, and databases
- Generated over 300 views a week through making blog posts once a week on topics ranging from Missouri State Salaries to Terrorism Attacks Across the US

- Articles/Topics Written: *A Quick Look into Nobel Prize Laureates, Why Miami is 2nd In Terrorist Attacks, Professor Pay in the UM System, A Look Into Job Listings from Indeed*

Hospital Helper

Rolla, MO

Team Lead

May 2020

- Created a hospital finder web application that provided users with more information over hospitals in their local area (<https://www.h-helper.xyz>).

What Gets a Paper Published?

Rolla, MO

Researcher

December 2019

- Performed statistical analysis on comparing features of published papers in the American Society of Civil Engineering (ASCE) Journal of Construction Engineering and Management.
- Utilized SAS to perform studies on data gathered
- Collected data from ASCE websites with Python and BeautifulSoup
- Link to report: <https://github.com/HenryCWong/whatGetsPublished>

Ferro Silicon

Normal, IL

Chief Design Officer

Sept 2015 - May 2016

- Co-led an Android Development team to win \$100,000
- Developed a safe driving app to lower the risk of a distracted driver
- Directed a design team to develop a 2D gaming engine and other consulting work

EXTRA-CURRICULARS

Association for Computing Machinery (ACM)

Rolla, MO

Chair/Founder of the Missouri S&T Hackathon

Sept 2017 - May 2018

- Organized the first Missouri S&T Hackathon, Shamhacks (later renamed to PickHacks) to grow into the largest hackthon in the state of Missouri
- Negotiated with every campus official to approve the first large scale hackathon
- Formed connections with companies with many being first time hackathon sponsors

ACM Student Chapter

Rolla, MO

Vice-President

May 2017 - December 2017

- Oversaw over 100 students helping them find careers and navigating through the tech world
- Rearranged finances breaking our ACM chapter out of a period of consistent deficit
- Organized and marketed weekly event resulting in a 30% increase in active members

MegaMinerAI

Rolla, MO

Vice-President/Show Runner

December 2016 - December 2017

- Ran MegaMinerAI, a bi-yearly completion for developers to create Artificial Intelligence Programs for our developed game environment
- Hosted MegaMinerAI's 20th Anniversary competition bringing in more than 200 competitors

ACM Cyber Security

Rolla, MO

Special Projects Lead

Aug 2016 - Jan 2019

- Participated in Capture the Flag (CTF) Competitions placing 27th in the US with team M57
- Planned multiple Cyber Security Bootcamps at Sandia National Laboratory

SKILLS

Technologies: Python, C/C++, Linux, SQL, R, Tableau, JavaScript, SAS, JMP

Libraries: Pandas, Numpy, scipy, PyTorch, Tensorflow, sklearn, BeautifulSoup

COURSES

Artificial Intelligence — Deep Learning — Statistical Data Analysis — Intro to Data Science — Combinatorics and Graph Theory — IoT with Applied Data Science — Data Mining