Henry C. Wong

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EDUCATION	M.S. in Computer Science Missouri University of Science and Technology GPA: 3.7/4.0	Aug 2020 - May 2022 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 - Aug 2020 Rolla, MO	
CLEARANCES	U.S Department of Defense Secret Clearance	2018	
PUBLICATIONS	Henry Wong , Tie Luo. <i>"Man-in-the-Middle Attacks on MQTT-based IoT Using BERT based Adver-sarial Message Generation."</i> Twenty-Sixth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 3rd AIoT Workshop, August 2020.		
EXPERIENCE	 Washington University at St. Louis Computational Biology Intern at Spencer Lak Worked with Dr. David Spencer to study Acute Myeloid Built pipelines optimized specifically to Washington U process an arrangement of genomics data including H Wrote open source tools used to count DNA barcodes Pushed changes into caper, an open source tool made Missouri University of Science and Technology 	Leukemia (AML). Iniversity's new compute cluster to li-C and Chipseq. on DNA sequences using Julia. to run ENCODE-DCC pipelines Rolla, MO	
	 Graduate Teaching Assistant and Researcher Dec 2019 - Present Taught 104 students for a graduate level Introduction to Artificial Intelligence course Covered topics such as A* search, minimax, quiescent states, and alpha-beta pruning Instructed Introduction to Programming, teaching fundamentals in C++ programming and achieved one of the highest teaching rating in the department 		
	 Liberty Mutual Data Science/Cyber Security Intern Analyzed data trends to finalize deals on authentication Saved more than \$3,000,000 in password reset and password validation web app using haveibeenpwd API Won both 3rd Place and Employee's Choice at Liberty N Used Splunk and Python to analyze authentication trend irregularities and vulnerabilities in password reset system 	training resources by developing a and password creation research Mutual's Hackathon ds of over 50,000+ accounts to spot	
	 The Boeing Company Cyber Security Intern Obtained Department of Defense clearance for multi-m Enforced the NIST Risk Management Framework for pass every government classified program at Boeing Reduced 3-10 hours per inspection by analyzing data compared to the second seco	Security Inspections to secure and	
	 State Farm Software Engineering Intern Saved 24 hours per week for IT employees by automati Reduced help desk wait time by developing a Machine I Designed an interactive Cyber Security lab for 100+ chi 	_earning chat bot for policy inquiries	

- 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	 Editor-in-Chief Sept 2017 - Pr 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 full stack systems from the ground up including websites, servers, and databas Took consulting jobs from numerous small businesses Analyzed data to push government reforms to improve student life in Missouri with c oration of local government Generated over 300 views a week through weekly blog posts on topics ranging from souri State Salaries to Terrorism Attacks Across the US 		
	 Hospital Helper Team Lead Created a hospital finder web application that provided users with hospitals in their local area (https://www.h-helper.xyz). 	Rolla, MO May 2020 more information over	
	 Ferro Silicon Chief Design Officer 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 perform 	Normal, IL Sept 2015 - May 2016 n consulting work	
EXTRA- CURRICULARS	Association for Computing Machinery (ACM) Chair/Founder of the Missouri S&T Hackathon • Organized the first Missouri S&T Hackathon, Shamhacks (later renamed to PickHacks) which later grew into the largest hackthon in the state of Missouri • Negotiated with every campus official to approve the first large scale hackathon		
	ACM Student Chapter Vice-President • Oversaw over 100 peers, helping them find careers and navigate through the tech world • Rearranged finances breaking our ACM chapter out of a period of consistent deficit • Organized and marketed weekly events resulting in a 30% increase in active members		
	MegaMinerAl Vice-President/Show Runner • Ran MegaMinerAl, a bi-yearly competition for developers to create Ar grams for our developed game environment • Hosted MegaMinerAl's 20th Anniversary competition bringing in mo	-	
	ACM Cyber Security Rolla, MO Special Projects Lead Aug 2016 - Jan 2019 • Placed 26th in worldwide Capture the Flag(CTF) Competitions under the team M57 • Planned multiple Cyber Security Bootcamps at Sandia National Laboratory • Participated in numerous Cyber Security conferences including multiple BSide conferences, Thotcon, Defcon, and more		
SKILLS	Technologies: C/C++, JavaScript, Linux, Python, R, Julia, SQL, AWS Libraries: Numpy, Pandas, PyTorch, Scipy, Sklearn, Tensorflow		
Awards	ACM KDD Student Registration Award Missouri S&T Computer Science Mentor Award Missouri S&T Computer Science Scholarship Award	2020 2019 2018	
COURSES	Artificial Intelligence – Deep Learning – Statistical Data Analysis – Ir	itro to Data Science –	

Combinatorics and Graph Theory — IoT with Applied Data Science — Data Mining