

Ganyuan Cao

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OBJECTIVE	A Ph.D. student in the field of Computer Science with a concentration on Cybersecurity. My research focuses on Cryptography with interests in blockchain and succinct computational-integrity algorithms.		
EDUCATION	<ul style="list-style-type: none">• <i>Bachelor of Science</i>, Computer Science Arizona State University, Tempe, AZ, May 2020 Concentration: Cybersecurity Minor/Certificate : Cryptology Honors: Summa Cum Laude (GPA: 3.83/4.0)		
SKILLS & ENDORSEMENTS	<ul style="list-style-type: none">• <i>Relevant Knowledge</i>: Cryptography, Blockchain, Abstract Algebra• <i>Programming Languages</i>: Python, C/C++, Java• <i>Mathematical Computation</i>: Wolfram Mathematica, Pari/GP• <i>OS & Framework</i>: Linux, Docker• <i>Text Editing</i>: L^AT_EX, Markdown		
EXPERIENCE	<i>Researcher</i>	Fall 2017 - May 2020	Laboratory of Security Engineering for Future Computing(SEFCOM), Arizona State University
	<ul style="list-style-type: none">• Work on algorithms and protocols to increase the Proof-of-Work blockchain mining efficiency while persevering the original security features.		
PUBLICATIONS & POSTERS	<ol style="list-style-type: none">1. Xue, Tengfei, Yuyu Yuan, Zahir Ahmed, Krishna Moniz, Ganyuan Cao, and Cong Wang. "Proof of Contribution: A Modification of Proof of Work to Increase Mining Efficiency." In 2018 IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC), pp. 636-644. IEEE, 2018.2. Cao, Ganyuan. "Estafette : A Parallelized Block Generation Protocol to increase scalability of cryptocurrencies". In 2018 Arizona State University CryptoRally poster session.		
ACADEMIC AWARDS	<i>Dean's List</i>	Fall 2016 - Spring 2018, Spring 2019 - Spring 2020	Ir.A Fulton School of Engineering, Arizona State University