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Experience	UNIVERSITY OF TEXAS AT ARLINGTON , Arlington, TX	<i>August 2013 – Present</i>
	Computing Engineer <ul style="list-style-type: none">• CERN Large Hadron Collider (LHC) computing grid operation analytics.• ATLAS - analysis & data distribution for high energy physics experiments conducted at LHC in Geneva.• ANSE collaborative networking projects with CalTech and University of Michigan. Exploring the usage of software-defined network to expedite transfers for high priority data.	
	BROOKHAVEN NATIONAL LABORATORY , Upton, NY	<i>February 2002 – December 2012</i>
	Computing Engineer <ul style="list-style-type: none">• Part of the efforts to DQ distributed data management, modeling and software development. This system handles hundreds PB of data among major research institutions globally. The system is written in Python and the backbone is Oracle.• Data processing, distribution, system development and operations analytics for LHC computing grid.• Magda: principal author of early distributed data management system which uses MySQL, Perl, C++ and Java.• Distributed computing in ATLAS for LHC collaboration.	
	SHANTOU UNIVERSITY , Shantou, China	<i>July 1992 – December 1996</i>
	Lecturer <ul style="list-style-type: none">• College Physics, Introduction to Computer Science, and C Computer Language.• Team research on amorphous silicon film.	

Education	KENT STATE UNIVERSITY , Kent, OH	<i>February 2002</i>
	<ul style="list-style-type: none">• Ph.D., Nuclear Physics.• Focus on STAR: Observation of charge asymmetry dependence of pion elliptic flow and the possible chiral magnetic wave in heavy-ion collisions.• Focus on characteristics of Quark-Gluon Plasma (QGP).• Developed the algorithm in C++ to identify charged kaons via their one-prong decay in Au-Au collision events.• STAR computing support and operations.• Principal author of 2 papers published in major physics journals.	
	NANKAI UNIVERSITY , Tianjin, China	<i>July 1992</i>
	<ul style="list-style-type: none">• M.S., Condensed Matter Physics.• Thesis and research focus on the diffusion effect at the interface between high-temperature superconductor YBCO and silicon.• Courses including Mathematical Physics Equations, Computational Methods, Statistical Physics, Quantum Mechanics, Group Theory, Solid-State Theory, and Experiments on Selected Topics.	
	WUHAN UNIVERSITY , Wuhan, China	<i>July 1989</i>
	<ul style="list-style-type: none">• B.S., Semiconductor Physics.• Qualified for graduate school without entrance exam.	

Other	Publications: <ul style="list-style-type: none">• <i>Strange anti-particle to particle ratios at mid-rapidity in $s(NN)^{1/2} = 130\text{-GeV}$ Au+Au collisions</i> STAR Collaboration (John Adams et al.). Nov 2002. 6 pp. Published in Phys.Lett. B567 (2003) 167-174.• <i>Kaon production and kaon to pion ratio in Au+Au collisions at $s(NN)^{1/2} = 130\text{-GeV}$</i> STAR Collaboration (C. Adler et al.). Jun 2002. 6 pp. Published in Phys.Lett. B595 (2004) 143-150.	
	Technical Skills: <ul style="list-style-type: none">• Data Scientist certificate from EMC.• Java, Python, HTML5, CSS, JavaScript, R, Perl.• Oracle SQL expert, MySQL server, Apache server, Linux.• Microsoft Word, Excel, Power Point.• Freelance Consultant: Signal processing of financial time series data using Kalman Filter for inventory control of a high-frequency market-maker using Python.	