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HE Yunqi	F. Vunai		722 Clark Street, APT 301,			
TIE Tunqi		Evanston, IL 60201				
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Education Backgr						
09/2019-12/2021	Northwestern University Evanston, IL, U					
00/00/00 06/00/0	M.S. in Computer Engineer	ing	Major GPA: 4.0/4	4.0, Overall GPA: 3.95/4.0		
09/2013-06/2017				Beijing, Chir		
	B.S. in Computer Science an	nd Technology	Major GPA: 3.11	/4.0, Overall GPA: 2.82/4.0		
Research Experience						
06-12/2021	Co-researcher	NuLo	giCS research G	roup, Northwestern Universit		
Logic encryption	Research content: learning		_	cryptography to be used in log		
related research	encryption research. Try to raise and solve the open problems in this field.					
(supervised by	Work done:					
Prof. Hai Zhou)						
	research, commonly used lo	gic design manipul	ation libraries and	open source tools		
07-09/2020	Co-researcher	Onlin	e Market Labora	atory, Northwestern Universit		
Survey on Persuasion	Research content: to make	e familiar with Bay	esian persuasion,	persuasion economy and monoto		
(collaborated with	persuasion, to ask questions worth discussion					
Yingkai Li,	Future work : to dig further on some open questions:					
supervised by	> Simple conditions on the primitives that guarantee constant approximation of the monotone					
Prof. Jason Hartline)	persuasion					
	 Robust persuasion under various models Expertise acquired: how to follow research on a certain theoretical topic and find open questions 					
04-06/2020	Independent Researcher			ourse, Northwestern Universi		
Online Revenue	Research objective: to desi	ign a mechanism fo	or Selling Introduct	tions problem and maximize onli		
Maximization on	revenue.					
Selling Introductions	Work done:					
(supervised by	Completed designing a mechanism with the known distribution of the value of employers and					
Prof. Jason Hartline)	employees to meet by the priced introduction, proved the mechanism to be truthful					
	 Maximized expected revenue by maximizing virtual welfare Using exponential weight method to do online learning on the mechanism Expertise acquired: basic knowledge about game theory, mechanism design, online market and several online learning algorithm, how to code in both Java and R to perform online learning 					
04.06/2020						
04-06/2020	Independent Researcher			ourse, Northwestern Universit		
A news search engine	Research objective: to realize a scalable news search engine					
(supervised by	➤ Work done: a complete search engine based on AWS cloud service, including front-end, back-					
Prof. Stephen Tarzia)	end and load balancing functions Expertise acquired: industrial-level large-scale software design technology					
01 02/2020		ldustriai-ievei iarge				
01-03/2020 Survey on Adentive	Co-researcher Work content: follow	ing Dayon's at alls		minar, Northwestern Universi		
Survey on Adaptive	> Work content: following Dwork et al's research on Adaptive Data Analysis and Woodworth et					
Data Analysis and Everlasting Database	al.'s research on Everlasting Database, Zrnic and Hardt's research on Natural adaptive analysts was discussed.					
(supervised by	was discussed. ➤ Expertise acquired: basic concepts and methods of computational theory, including					
Prof. Jason Hartline)	Hoeffding's inequality, etc.					
1 10j. Juson Hariline)	rioeriumg's mequanty, etc.					

06/2017 -01/2018	Independent Researcher	Center for Energy-Efficient Computing and Applications, PKU		
GRT Sensing v1.0	> Research objective: to equip household robot with GRT sensing system with the function of			
(supervised by	fall prevention for the elders via recognizing human status through walls			
Prof. Tao Wang)	➤ Work done: completed the construction of GRT Sensing v1.0 for real-time display of CSI and			
	space disturbance			
	> Expertise acquired: network protocol stack, com transmission library, gnuplot, and the			
	architecture of GRT 2.0			
03-07/2017	Co-researcher	Software Engineering Institute, PKU		
"Waiter"	> Functions: food-ordering with voices via multiple applications			
Cell phone software	➤ Work content: object-oriented analysis and design (wrote using codes—voice API, Yanyun			
(supervised by	Reflection API for inter-App ordering)			
Prof. Gang Huang)	Practical application:	➤ Practical application: under negotiation with investors		
05/2017	Independent Researcher	Institute of Microelectronic, PKU		
Wifi Connector for	Achievements:			
projector	➤ Completed a connector for projector via Wi-Fi			
(diploma design,	➤ "Excellent Graduation Design" of PKU (top 5%)			
supervised by	Work content:			
Prof. Dunshan Yu)	➤ Adopted object-oriented technique for complete analysis and design			
		Analyzed the transmission property and designed server and client based on Netty for		
	asynchronous video stream transmission			
		ple ends, achieved expected experimental outcome after debugging		
04/2016	Co-researcher	Center for Energy-Efficient Computing and Applications, PKU		
FPGA-based CNN	•	o learn how to do FPGA design via high-level synthesis tools and realize		
Accelerator	_	on convolution calculation		
(supervised by		how to use Tcl scripts to modify specific calculation processes via the		
Prof. Guangyu Sun)	Xilinx Vivado tool chain			
Work Experience	& Internship			
01/2018 – 08/2019	Project Manager	Beijing Yidian Science and Technology Co., Ltd		
"Yidian"	Features: a multi-sided platform to connect online diagnosis and treatment and offline			
Online-Diagnosis	resources			
Platform	➤ Work done: complete	d the major part of the platform with functions of online inquiry, hospital		
	searching, online regis	searching, online registration and after-treatment services		
	Expertise acquired : communicating work with doctors and patients, designing the interface			
07/2015	PD & Test Engineer	Beijing Simpulife Science and Technology Co., Ltd		
"Uniwork"	Features: intelligent cell pl	Features: intelligent cell phone software for college students (facilitating event management, notice		
Cell Phone Software	issuing, and management of	issuing, and management of student organizations)		
	Work Content:			
	Participated in product	positioning, design and testing of the first edition		
	➤ Completed all assessment and debugging work			
Other Information	<u>n</u>			
Award	3 rd Prize	ACM Programming Contest of PKU		
05/2015	Our team ranks 35 among 3	77 teams from and not limited to Peking University.		
Leadership	Director	Liaison Dept. of the Students Union of PKU		
09/2014-07/2015	➤ Designed posters and outreach programs for group activities organized by Students Union			
	➤ Helped with event management issues			
Skills	 Language: Java, C/C++, VHDL/Verilog, Python, Rust, Matlab, R, etc. Software: Xilinx Vivado, Intel Quartus, ModelSim, Jetbrain Tools, Android Studio, Xcode, etc. Tool: CUDA, OpenCV, OpenBR, Maven, Git, AWS SDK, etc. 			