		yunqi.he@u.north	western.edu	Cell Phone: +1(773)290-080	01
HE Yunqi		722 Clark Street, APT 301,			
		Evanston, IL 60201			
Education Backgr	ound				
09/2019-12/2021	Northwestern University			Evanston, IL,	US
07/2017 12/2021	M.S. in Computer Engineer	ino	Major GPA: 4.0	L	C.D.
09/2013-06/2017	Peking University (PKU)			Beijing, C	hina
07/2015 00/2017	B.S. in Computer Science at	nd Technology	Major GPA: 3.1		Jiiiia
D 1 E		nd reemieregy	ivagor Offic 201	17 110	
Research Experien			100	O N	•.
06-12/2021	Co-researcher		_	Group, Northwestern Univer	
Logic encryption	Research content: learning the basic knowledge of logic and cryptography to be used in logic				logic
related research	encryption research. Try to raise and solve the open problems in this field.				
(supervised by	Work done: ➤ Systematically reading key research papers in the field of logical encryption.				
Prof. Hai Zhou)				• • • • • • • • • • • • • • • • • • • •	.,.
		eircuit design in the	synthesis stage i	using techniques including rewi	riting,
	obfuscation and so on.	1 11 61		1 . 16 1 .	
			• • • •	raphy required for logic encry	ption
07.00/2020	research, commonly used lo	<u> </u>		•	•4
07-09/2020	Co-researcher			ratory, Northwestern Univer	•
Survey on Persuasion		=	esian persuasion,	, persuasion economy and mon	otone
(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				
	•		a cartain theoret	ical topic and find open question	na
04-06/2020	Independent Researcher			course, Northwestern Unive	
Online Revenue	•			ctions problem and maximize of	
Maximization on	revenue.	igii a mechanishi 10	i Sennig muodu	ctions problem and maximize of	JIIIIIE
Selling Introductions	Work done:				
(supervised by		a mechanism with f	he known distrib	oution of the value of employer	re and
Prof. Jason Hartline)	1 0 0			echanism to be truthful	.s and
Troj. suson Hurtime)	 Maximized expected re 	•	-		
	_	-	-		
	➤ Using exponential weight method to do online learning on the mechanism Expertise acquired: basic knowledge about game theory, mechanism design, online				et and
			-	R to perform online learning	, una
04-06/2020	Independent Researcher			course, Northwestern Unive	rsity
A news search engine	•			· · · · · · · · · · · · · · · · · · ·	_===5
(supervised by	 Research objective: to realize a scalable news search engine 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: in		scale software de	esign technology	
01-03/2020	Co-researcher	8-		eminar, Northwestern Unive	ersity
Survey on Adaptive		ing Dwork et al's re	-	ive Data Analysis and Woodwo	-
Data Analysis and		•	•	esearch on Natural adaptive an	
Everlasting Database	was discussed.	,		1	,
(supervised by		basic concepts a	and methods of	f computational theory, incl	uding
Prof. Jason Hartline)	Hoeffding's inequality,			1	C
J					

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: complete	d 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	0		
03-07/2017	Co-researcher	Software Engineering Institute, PKU		
"Waiter"	➤ Functions : food-order	ing with voices via multiple applications		
Cell phone software	➤ Work content: object	t-oriented analysis and design (wrote using codes—voice API, Yanyun		
(supervised by	Reflection API for inter-App ordering)			
Prof. Gang Huang)	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			
		ission property and designed server and client based on Netty for		
	asynchronous video str			
		ple ends, achieved expected experimental outcome after debugging		
04/2016	Co-researcher	Center for Energy-Efficient Computing and Applications, PKU		
FPGA-based CNN	> Research objective: to learn how to do FPGA design via high-level synthesis tools and realize			
Accelerator	hardware optimization 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	& Internshin			
<u>Work Experience of 01/2018 – 08/2019</u>	& <i>Internship</i> Project Manager	Beijing Yidian Science and Technology Co., Ltd		
	Project Manager	Beijing Yidian Science and Technology Co., Ltd led platform to connect online diagnosis and treatment and offline		
01/2018 - 08/2019	Project Manager			
01/2018 – 08/2019 "Yidian"	Project Manager ➤ Features: a multi-sid resources			
01/2018 – 08/2019 "Yidian" Online-Diagnosis	Project Manager ➤ Features: a multi-sid resources ➤ Work done: complete	led platform to connect online diagnosis and treatment and offline		
01/2018 – 08/2019 "Yidian" Online-Diagnosis	Project Manager ➤ Features: a multi-sid resources ➤ Work done: complete searching, online register	led platform to connect online diagnosis and treatment and offline d the major part of the platform with functions of online inquiry, hospital		
01/2018 – 08/2019 "Yidian" Online-Diagnosis	Project Manager ➤ Features: a multi-sid resources ➤ Work done: complete searching, online register	led platform to connect online diagnosis and treatment and offline d the major part of the platform with functions of online inquiry, hospital tration and after-treatment services		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform	Project Manager Features: a multi-side resources Work done: complete searching, online registed Expertise acquired: complete searching acquired: complete sear	ded platform to connect online diagnosis and treatment and offline diagnosis and diagnosis and diagnosis and diagnosis and diagnosis and d		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015	Project Manager Features: a multi-side resources Work done: complete searching, online registed Expertise acquired: complete searching acquired: complete sear	ded platform to connect online diagnosis and treatment and offline d the major part of the platform with functions of online inquiry, hospital tration and after-treatment services ommunicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd none software for college students (facilitating event management, notice		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork"	Project Manager Features: a multi-sideresources Work done: completeesearching, online registesearching, online registesearching. Expertise acquired: completeesearching.	ded platform to connect online diagnosis and treatment and offline d the major part of the platform with functions of online inquiry, hospital tration and after-treatment services ommunicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd none software for college students (facilitating event management, notice		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork"	Project Manager Features: a multi-side resources Work done: complete searching, online registed resources Expertise acquired: complete searching, online registed resources: intelligent cell places in telligent cell places.	ded platform to connect online diagnosis and treatment and offline d the major part of the platform with functions of online inquiry, hospital tration and after-treatment services ommunicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd none software for college students (facilitating event management, notice		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork"	Project Manager Features: a multi-side resources Work done: complete searching, online registed resources Expertise acquired: complete searching, online registed resources: intelligent cell places in telligent cell places.	ded platform to connect online diagnosis and treatment and offline ded the major part of the platform with functions of online inquiry, hospital tration and after-treatment services communicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd none software for college students (facilitating event management, notice student organizations) positioning, design and testing of the first edition		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork" Cell Phone Software	Project Manager ➤ Features: a multi-side resources ➤ Work done: complete searching, online registe ➤ Expertise acquired: complete searching, online registe ➤ Expertise acquired: complete searching, and management of the work Content: ➤ Participated in product ➤ Completed all assessments	ded platform to connect online diagnosis and treatment and offline ded the major part of the platform with functions of online inquiry, hospital tration and after-treatment services communicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd none software for college students (facilitating event management, notice student organizations) positioning, design and testing of the first edition		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork"	Project Manager ➤ Features: a multi-side resources ➤ Work done: complete searching, online registe ➤ Expertise acquired: complete searching, online registe ➤ Expertise acquired: complete searching, and management of the work Content: ➤ Participated in product ➤ Completed all assessments	ded platform to connect online diagnosis and treatment and offline ded the major part of the platform with functions of online inquiry, hospital tration and after-treatment services communicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd none software for college students (facilitating event management, notice student organizations) positioning, design and testing of the first edition ent and debugging work		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork" Cell Phone Software Other Information Award	Project Manager ➤ Features: a multi-side resources ➤ Work done: complete searching, online registe ➤ Expertise acquired: complete searching, online registe ➤ Expertise acquired: complete searching, and management of work Content: ➤ Participated in product ➤ Completed all assessments	led platform to connect online diagnosis and treatment and offline d the major part of the platform with functions of online inquiry, hospital tration and after-treatment services ommunicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd none software for college students (facilitating event management, notice student organizations) positioning, design and testing of the first edition ent and debugging work ACM Programming Contest of PKU		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork" Cell Phone Software Other Information Award 05/2015	Project Manager ➤ Features: a multi-side resources ➤ Work done: complete searching, online registe ➤ Expertise acquired: complete searching, online registe ➤ Expertise acquired: complete searching, and management of work Content: ➤ Participated in product ➤ Completed all assessments	ded platform to connect online diagnosis and treatment and offline ded the major part of the platform with functions of online inquiry, hospital tration and after-treatment services communicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd none software for college students (facilitating event management, notice student organizations) positioning, design and testing of the first edition ent and debugging work ACM Programming Contest of PKU 77 teams from and not limited to Peking University.		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork" Cell Phone Software Other Information Award 05/2015 Leadership	Project Manager Features: a multi-side resources Work done: complete searching, online regists Expertise acquired: complete searching, online regists Expertise acquired: complete searching, and management of work Content: Participated in product Completed all assessments 3rd Prize Our team ranks 35 among 3 Director	ded platform to connect online diagnosis and treatment and offline ded the major part of the platform with functions of online inquiry, hospital tration and after-treatment services ommunicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd none software for college students (facilitating event management, notice student organizations) positioning, design and testing of the first edition ent and debugging work ACM Programming Contest of PKU 77 teams from and not limited to Peking University. Liaison Dept. of the Students Union of PKU		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork" Cell Phone Software Other Information Award 05/2015	Project Manager Features: a multi-side resources Work done: complete searching, online registed: complete searching, online registed: complete searching, online registed: complete searching, online registed: completed:	ded platform to connect online diagnosis and treatment and offline distribution and after-treatment services communicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd mone software for college students (facilitating event management, notice student organizations) positioning, design and testing of the first edition ent and debugging work ACM Programming Contest of PKU 77 teams from and not limited to Peking University. Liaison Dept. of the Students Union of PKU outreach programs for group activities organized by Students Union		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork" Cell Phone Software Other Information Award 05/2015 Leadership	Project Manager Features: a multi-side resources Work done: complete searching, online regists Expertise acquired: complete searching, online regists Participated: complete searching and management of work Content: Participated in product Completed all assessment The searching are searching as a searching and searching are searching. Prize Our team ranks 35 among 3 Director Possigned posters and complete searching are searching.	d the major part of the platform with functions of online inquiry, hospital tration and after-treatment services ommunicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd none software for college students (facilitating event management, notice student organizations) positioning, design and testing of the first edition ent and debugging work ACM Programming Contest of PKU 77 teams from and not limited to Peking University. Liaison Dept. of the Students Union of PKU outreach programs for group activities organized by Students Union magement issues		
01/2018 – 08/2019 "Yidian" Online-Diagnosis Platform 07/2015 "Uniwork" Cell Phone Software Other Information Award 05/2015 Leadership 09/2014-07/2015	Project Manager Features: a multi-side resources Work done: complete searching, online regists Expertise acquired: complete searching, online regists Expertise acquired: complete searching, and management of work Content: Participated in product Completed all assessment of the product	ded platform to connect online diagnosis and treatment and offline ded the major part of the platform with functions of online inquiry, hospital tration and after-treatment services communicating work with doctors and patients, designing the interface Beijing Simpulife Science and Technology Co., Ltd mone software for college students (facilitating event management, notice student organizations) positioning, design and testing of the first edition ent and debugging work ACM Programming Contest of PKU 77 teams from and not limited to Peking University. Liaison Dept. of the Students Union of PKU outreach programs for group activities organized by Students Union		