

# *Cheng-Lung, Peng*

Email: [philip01169@gmail.com](mailto:philip01169@gmail.com) Phone no: +886-933-043027

## *Education*

National Taiwan University, Taipei, Taiwan

Master of Science in Computer Science and Information Engineering    Sept. 2011 - Aug. 2013  
(GPA: 4.20/4.30)

National Cheng Kung University, Tainan, Taiwan

Bachelor of Science in Computer Science and Information Engineering    Sept. 2007 - June 2011  
(GPA: 3.89/4.0)

## *Skills & Qualifications*

8+ years of programming experience using C/C++ on Linux and MS Windows

1+ years of programming experience using Java with Eclipse IDE

1+ years of programming experience using HTML and JavaScript

## *Honors & Awards*

### *Academic Achievement:*

National Outstanding Collegians in Taiwan, 2011

Presidential Award in National Cheng Kung University, 2008-2009

### *Programming:*

Second Place, Southern Collegiate Programming Contest, 2011

Honorable Mention, ACM-ICPC Asia Kaohsiung Regional Contest, 2010

Third Place, National Collegiate Programming Contest, 2010

Rank 6/124 (3.8%), Basic/Graduate Programming Exam, Oct. 11, 2010

Seventh Place, Central Collegiate Programming Contest, 2010

Rank 1105/3000 (37%), Google Code Jam Round 2, 2010

Rank 806/3075 (26%), Google Code Jam Round 1C, 2010

Third Place, Southern Collegiate Programming Contest, 2010

Third Place, CSIE Programming Contest in NCKU, 2010

Fourth Place, C/C++-Java programming contest in Yuan Ze University, 2010

Second Place, CSIE Programming Contest in NCKU, 2009

### *Others:*

Fourth Place, World Series of Mahjong in Macao, Dec. 2015

Second Place, Mahjong Contest in Taoyuan Dist., Taoyuan City, Oct. 2015

Second Place, Mahjong Contest in Taoyuan Dist., Taoyuan City, Sep. 2015

Second Place, Mahjong Contest in Zhongli Dist., Taoyuan City, June 2015

First Place, Mahjong Contest in National Taiwan University of Science and Technology, 2011

Semifinals, Microsoft Third Teenage Reasoning King, 2008

## **Related Experience/Projects**

### **Related Experience:**

VIVOTEK, New Taipei City, Taiwan

Firmware Engineer in the Department of Project Development

Dec. 2014 - Present

- Release more than 40 customized samples
- Implement 2 ODM projects
- Train new team members

### **Thesis:**

Topic: Delay-sensitive In-network Data Aggregation for Server-centric Datacenters

Advisor: Cheng-Fu Chou (周承復)

Laboratory: Communications and Multimedia Laboratory

#### Thesis Summary:

In this paper, we investigated the problem of minimizing bandwidth consumption through data aggregation in on-line and deadline-aware services for server-centric data center networks. We know that the amount of processing data is enormous in these services, and therefore we can make a lot of profit even though we only save a small portion of total bandwidth consumption. We formulate the problem as an Integer Program to show the difficulty of solving it in polynomial time. After that, we propose an algorithm that uses the property of multiple paths between servers to build a shortest-path Steiner tree. We evaluate its performance against the optimum and other works about solving the Steiner tree problems. Our results confirm that our SDC aggregation-tree algorithm can achieve lower bandwidth consumption (about 18.5%) and lower delay no matter for instances or for flows than the previous heuristic algorithms.

## **Autobiography**

My name is Philip. I had a dream of studying Computer Science at university during my adolescence. Both my parents supported my decision, so I could learn without any worries. I hope my way could be an example for my younger brother who is also majoring in Computer Science.

I didn't know how to manage my time effectively when I was a freshman. At the end of the semester, I thought I couldn't take everything well. After adjusting my timetable, I regained my lost confidence and took the first place during the second semester. In the next year, I played roles of the Minister of Activities in Recreation Leader Training Association, the same job in the Computer Science Week and the class monitor. At that time I could allocate my time efficiently and finally won the presidential award in my sophomore year; besides, I was selected as one of national outstanding collegians before graduation.

I practiced ACM problems during the rest of my college years. This could enhance logical thinking, teamwork and programming skills. Furthermore, thanks to my professor Dr. Chou, I finished my master thesis in the Communications and Multimedia Laboratory and the topic is "Delay-sensitive Data Aggregation for Server-centric Datacenters." The honors and the thesis summary are listed above.

VIVOTEK is the first company I joined. I am responsible for solving sample requests and developing ODM products. In this position, I can work with many people from different departments, thus improving communication skills; moreover, when I need to modify modules I am not familiar with in limited time, I have

to ask my good colleagues in the same division for help, and I can also give them ideas on other tasks. The program languages I use in this job are C, Shell script, HTML and JavaScript on Linux platform.

It would be my pleasure if I could have a chance to join your team. In addition, I hope I can take additional courses to further enrich myself besides hard working. I hope that you will give me an interview at some time convenient to you.

## Transcripts (English Version with GPA)

Image of transcript in Master:

NATIONAL TAIWAN UNIVERSITY TRANSCRIPT OF ACADEMIC RECORD							
Reg. No.	R00922067						
Name	PENG, CHENG-LUNG (彭正龍)			National Taiwan University uses a letter grading system on a scale of A+ to X			
Graduate Institute	Computer Science and Information Engineering			Grading system as below:			
Date Enrolled	September 2011			A+ = 4.3 A = 4.0 A- = 3.7			
Degree Conferred	Master of Science			B+ = 3.3 B = 3.0 B- = 2.7			
Date Conferred	June 2013			C+ = 2.3 C = 2.0 C- = 1.7			
Date Issued	October 06, 2014			F = 0 X = 0			
				B- = Lowest Passing Grade			
The following transcript is hereby certified as correct according to the record of the university.				Page: 1 of 1			
Course No.	Course Title	Credit	Grade	Course No.	Course Title	Credit	Grade
<b>1st Semester 2011/2012</b>							
CIE 5029	Object-oriented Programming	3	A+				
CSIE 7990	Special Project	1	A				
CSIE 7000	Seminar	1	A+				
CSIE 7110	Computing Theory	3	A+				
CSIE 5023	Performance Modeling	3	A				
CSIE 5057	Advanced Computer Networks	3	A-				
Total Credits Earned: 14 Grade Point Average: 4.09							
<b>2nd Semester 2011/2012</b>							
EE 5025	Computer Communication Networks	3	A				
CSIE 7990	Special Project	1	A				
CSIE 7000	Seminar	1	A+				
CSIE 5113	An Introduction to Advanced Performance Modeling	3	A+				
CSIE 7523	Next-generation Wireless Networks	3	A				
Total Credits Earned: 11 Grade Point Average: 4.11							
<b>1st Semester 2012/2013</b>							
CSIE 7990	Special Project	1	A+				
Write 7002	Fundamentals of English Writing	3	A				
Total Credits Earned: 4 Grade Point Average: 4.08							
<b>2nd Semester 2012/2013</b>							
CSIE 7999	Thesis (M.S.)	-	A+				
CSIE 7990	Special Project	1	A+				
Total Credits Earned: 1 Grade Point Average: 4.30							
Thesis: A+							
Credits Earned: 30							
Transfer Credits: 0							
Summer Session Credits: 0							
Total Credits: 30							
Overall Grade Point Average: 4.20							
(End of Record)							

The overall grade point average shown on transcript is calculated based on 50% of the student's thesis and 50% of his GPA for the courses taken.

*Hung-Sen Lee*  
HUNG-SEN LEE  
DIRECTOR OF GRADUATE ACADEMIC AFFAIRS

# Image of transcript in Bachelor:

NATIONAL CHENG KUNG UNIVERSITY TAINAN, TAIWAN, REPUBLIC OF CHINA RECORD OF COURSES COMPLETED						Grading System					
Name: PENG, CHENG-LUNG		Date Enrolled: September 2007		Grade	Significance	Grade Points					
Date of Birth: September 22, 1989		Date Issued: March 19, 2012		A	Excellent(80-100)	4					
Degree Conferred(1) B.S. June 2011		College: Electrical Engineering and Computer Science		B	Good(70-79)	3					
Department: Computer Science and Information Engineering				C	Fair(60-69)	2					
(2) *****		College: *****		D	Fail(50-59)	1					
Department: *****				E	Fail(Below 50)	0					
Minor in: *****				Passing grade			60				
The following record is certified as correct according to the records of the Registration Office.											
Courses		1st semester		2nd semester		Courses		1st semester		2nd semester	
		Crs	Grade	Crs	Grade			Crs	Grade	Crs	Grade
Academic Year (2007-2008)											
English	2	89	2	85	Computer Project Design(1)	1	83	2	90		
Introduction to Computers	3	73			Theory of Computation			3	100		
Program Design	3	90	3	87	Compiler Construction			3	89		
Chinese	3	75	3	82	Japanese	2	85	2	88		
Calculus	3	85	3	94	Military-national Security	0	81				
General Physics Laboratory	1	76	1	89	Introduction to Virtual Reality			3	99		
General Physics	3	71	3	84	Computer Communication Networks	3	90				
History	2	80			Multimedia Systems and Applications			3	88		
Constitutional Democracy and National Development			2	84	Marketing Management	3	89				
Service Study	0	84	0	95	Introduction to Music(C)			2	90		
Linear Algebra			3	94	Society and Movie			2	83		
Introduction to Circuits Theory and Digital Electronics			3	96	Accessible Life and Environment	2	92				
Military-class of Ancient Military Strategy			0	88							
Military-taiwan-penhu Defensive Operation	0	88			Earned Credits	20		20			
Physical Therapy and Healthy Life	2	85			Average		89.5		91.5		
Exercise & Health			2	87	Moral Conduct	0	88	0	85		
Earned Credits	22		25								
Average		80.3		88.5	Academic Year (2010-2011)						
Physical Education	0	91	0	87	Computer Project Design(2)	2	80				
Moral Conduct	0	88	0	88	Practical English	3	93				
					International Finance			3	78		
					Social Psychology			3	82		
					Psychology of Memory	3	96				
					An Introduction to Database Systems			3	85		
					Interpersonal Relationships and Communication	3	89				
					The Forum for Leadership	2	82				
					Earned Credits	13		9			
					Average		89.1		81.7		
					Moral Conduct	0	88	0	88		
					Sum of Credits			154			
					Grand Average				88.08		
					GPA = 3.89						
Academic Year (2008-2009)											
Service Study (3)	0	84									
Engineering Mathematics	3	100									
Computer Organization			3	88							
Data Structure	3	91									
Discrete Mathematics			3	97							
Programming Language			3	98							
Introduction to Digital System	3	90									
Experiment on Digital System	1	93									
Probability and Statistics			3	94							
Japanese	2	95	2	90							
Military Training - strategy and Propaganda	0	87									
Web Applications and Programming	3	90									
Cross-platform Programming			3	89							
Attitude Brilliance and Career of Computer Science and I - nformation Engineering			1	95							
Information Security	3	75									
Business Communication Network	3	85									
English	1	TR	1	TR							
Introduction to Performance Arts			2	91							
Engineering Ethics	2	83									
Earned Credits	24		21								
Average		88.8		92.8							
Physical Education	0	88	0	82							
Moral Conduct	0	88	0	88							
Academic Year (2009-2010)											
Operating Systems	3	89									
Algorithms	3	92									
Microprocessor Principles and Applications	3	91									
Experiments of Microprocessor Principles and Application -											

Remark: Please quote the reference number on further inquiry.  
W: Withdrawal NO: Waiting for Grade T: Credit Equivalent  
Registrar Misa-Hua Lee

