# Cheng-Lung, Peng

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## 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

7+ 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

***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.

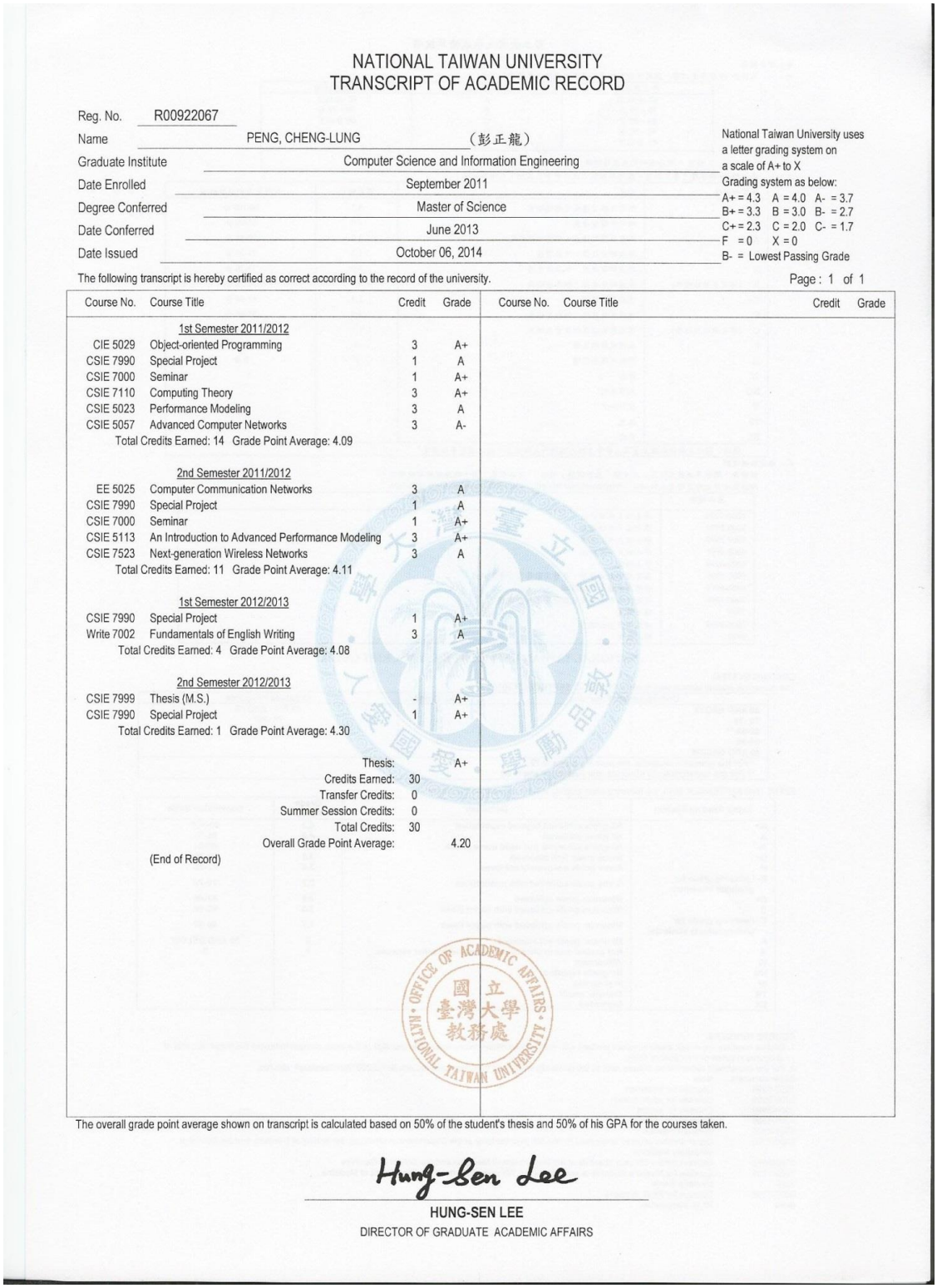
I practiced ACM problems during the rest of my college years. This could enhance logical thinking, teamwork and programming skills. Furthermore, thanks to my professor Dr. Chou, I finished my master thesis in the Communications and Multimedia Laboratory and the topic is "Delay-sensitive Data Aggregation 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)
Graduate Institute Computer Science and Information Engineering
Date Enrolled September 2011
Degree Conferred Master of Science
Date Conferred June 2013
Date Issued October 06, 2014

National Taiwan University uses a letter grading system on a scale of A+ to X
Grading system as below:
A+ = 4.3 A = 4.0 A- = 3.7
B+ = 3.3 B = 3.0 B- = 2.7
C+ = 2.3 C = 2.0 C- = 1.7
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 |
|---|---|---|---|
| | 1st Semester 2011/2012 | | |
| 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 | | |
| | 2nd Semester 2011/2012 | | |
| 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 | | |
| | 1st Semester 2012/2013 | | |
| CSIE 7990 | Special Project | 1 | A+ |
| Write 7002 | Fundamentals of English Writing | 3 | A |
| | Total Credits Earned: 4 Grade Point Average: 4.08 | | |
| | 2nd Semester 2012/2013 | | |
| 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**

Name: PENG, CHENG-LUNG
Date of Birth: September 22, 1989
Degree Conferred:(1) B.S June 2011
Department: Computer Science and Information Engineering
(2) ***** College: **********
Department: **********
Minor in: **********

Date Enrolled: September 2007
Date Issued: March 19, 2012
College: Electrical Engineering and Computer Science

Grading System

| Grade | Significance | Grade Points |
|---|---|---|
| A | Excellent(80-100) | 4 |
| B | Good(70-79) | 3 |
| C | Fair(60-69) | 2 |
| D | Fail(50-59) | 1 |
| E | Fail(Below 50) | 0 |
| | Passing grade | 60 |

The following record is certified as correct according to the records of the Registration Office.

| Courses | 1st semester Crs | 1st semester Grade | 2nd semester Crs | 2nd semester Grade |
|---|---|---|---|---|
| Academic Year (2007-2008) | | | | |
| English | 2 | 89 | 2 | 85 |
| Introduction to Computers | 3 | 73 | | |
| Program Design | 3 | 90 | 3 | 87 |
| Chinese | 3 | 75 | 3 | 82 |
| Calculus | 3 | 85 | 3 | 94 |
| General Physics Laboratory | 1 | 76 | 1 | 89 |
| General Physics | 3 | 71 | 3 | 84 |
| History | 2 | 80 | | |
| Constitutional Democracy and National Development | | | 2 | 84 |
| Service Study | 0 | 84 | 0 | 95 |
| Linear Algebra | | | 3 | 94 |
| Introduction to Circuits Theory and Digital Electronics | | | 3 | 96 |
| Military-class of Ancient Military Strategy | | | 0 | 88 |
| Military-taiwan-penhu Defensive Operation | 0 | 88 | | |
| Physical Therapy and Healthy Life | 2 | 85 | | |
| Exercise & Health | | | 2 | 87 |
| Earned Credits | 22 | | 25 | |
| Average | | 80.3 | | 88.5 |
| Physical Education | 0 | 91 | 0 | 87 |
| Moral Conduct | 0 | 88 | 0 | 88 |
| 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 - s | 1 | 83 | | |
| Computer Project Design(1) | | | 2 | 90 |
| Theory of Computation | | | 3 | 100 |
| Compiler Construction | | | 3 | 89 |
| Japanese | 2 | 85 | 2 | 88 |
| Military-tnational Security | 0 | 81 | | |
| Introduction to Virtual Reality | | | 3 | 99 |
| Computer Communication Networks | 3 | 90 | | |
| Multimedia Systems and Applications | | | 3 | 88 |
| Marketing Management | 3 | 89 | | |
| Introduction to Music(C) | | | 2 | 90 |
| Society and Movie | | | 2 | 83 |
| Accessible Life and Environment | 2 | 92 | | |
| Earned Credits | 20 | | 20 | |
| Average | | 89.5 | | 91.5 |
| Moral Conduct | 0 | 88 | 0 | 85 |
| Academic Year (2010-2011) | | | | |
| Computer Project Design(2) | 2 | 80 | | |
| 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 | | | | |

Remark: Please quote the reference number on further inquiry.
W: Withdraw NO: Waiting for Grade TR: Credit Equivalent

Registrar Mina-Hua Lee

NATIONAL CHENG KUNG UNIVERSITY REGISTRAR'S OFFICE OFFICE OF ACADEMIC AFFAIRS

Reference Number : F7498202#