Yen-Shi Wang

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Education

National Taiwan University

Taipei, Taiwan

B.S. IN ELECTRICAL ENGINEERING

Sep. 2014 - Jan. 2019

DOUBLE MAJOR IN COMPUTER SCIENCE AND INFORMATION ENGINEERING (CSIE)

Sep. 2017 - Jan. 2019

- Overall GPA 4.02 / 4.30, CSIE GPA 4.20 / 4.30 (calculated by 41 credits)
- Related courses: Operating Systems, Algorithm Design and Analysis, Data Structure, Applied Deep Learning, Computer Gaming Theory, Multimedia Analysis and Indexing, Digital Speech Processing

Work Experience _____

BravoAl Co., Ltd. Taipei, Taiwan

SOFTWARE ENGINEER Mar. 2018 - Sep. 2018

- Developed a system that converts fields on certificate of diagnoses from paper into electronic forms.
- Integrated text detection, optical character recognition, and multi-label classification methods.
- Achieved an overall precision of over 90% and used by the biggest insurance companies in Taiwan.
- Sped up the process of health insurance by 10 times.

WorldQuant, LLC Taipei, Taiwan

QUANTITATIVE RESEARCH INTERN & CONSULTANT

Jul. 2017 - Jan. 2019

- · Created quantitative models from financial data, which predict the movement of worldwide financial markets.
- Achieved highest Websim score (it is an evaluation of our models) among six interns at the end of the internship.
- Earned the GOLD certificate on Websim and continued to work as a consultant.

Honors & Awards

INTERNATIONAL

2018 Rank 116 , G	Google Code Jam	2018, Round 1C
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2017 **12th place**, ACM-ICPC Asia Nakhon Pathom Regional Contest Nakhon Pathom, Thailand Santa Marta, Colombia

2013 **Silver Medal**, 54th International Mathematical Olympiad (IMO)

DOMESTIC

2018 Honorable Mention , Computer Aided Design Contest at ICCAD	Taiwan
2017 Silver Medal , ACM-ICPC Asia Hua-Lien Regional Contest	Hua-Lien, Taiwan
2017 Third Prize , National Collegiate Programming Contest 2017	Taipei, Taiwan
2017 College Student Research Scholarship, National Science Council	Taiwan
2016 Academic Excellence Award (top 5%), Dept. Electrical Engineering	Taipei, Taiwan
2013 Third Prize, National High School Mathematics Competition	Changhua, Taiwan
2013 Second Prize , Taipei High School Mathematics Competition	Taipei, Taiwan

Skills _____

Programming Languages Expert in C/C++ and Python; Competent in Bash, Verilog, JAVA and Javascript **Tools and Others** Linux/UNIX, Docker, Pytorch, MongoDB, ThreeJS, WebGL, CSS, Git

Publications _____

- 1. N.-Z. Lee*, Y.-S. Wang*, and J.-H. R. Jiang. Solving Exist-Random Quantified Stochastic Boolean Satisfiability via Clause Selection. In Proc. International Joint Conference on Artificial Intelligence (IJCAI-18), 2018. * Equal contribution
- 2. N.-Z. Lee, Y.-S. Wang, and J.-H. R. Jiang. Solving Stochastic Boolean Satisfiability under Random-Exist Quantification. In Proc. International Joint Conference on Artificial Intelligence (IJCAI-17), 2017.

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Academic Experience _

Undergraduate Research, ALCom Lab (PI: Jie-Hong Roland Jiang)

Taipei, Taiwan

RESEARCHER FOR STOCHASTIC BOOLEAN SATISFIABILITY (SSAT)

Sep. 2015 - Aug. 2017

- Proposed a new algorithm combining clause selection technique and model counting to solve SSAT problem.
- Conducted a survey about previous works, and performed an completed analysis.
- Achieved best average performance on the datasets collected from three related researches.

Teaching Assistant, Signals and Systems

Feb. 2017 - Jun. 2017

• Taught MATLAB, graded assignments and exams of 200 students, and answered their questions on a weekly basis.

Experimental Assistant, Switching Circuit and Logic Design

Sep. 2016 - Jan. 2017

· Assisted students to run Verilog programs on FPGA. Given advice on writing modularized and robust code.

Selected Projects _____

Sokoban solver (assignment in Theory of Computer Games)

Oct. 2018

- Used tools such as GProf, GDB and Git during the development of programs.
- Combined bi-directional breadth-first search with rules to prune the search space.
- Analyzed the number of visited states with different algorithms (Ex. BFS, DFS, A Star, and DFID).
- Became one of the top 10 solvers in the class.

Round-Robin Scheduling (assignment in Operating Systems)

May. 2018

- Learned deadlock, race condition, and scheduling methods in operating systems.
- Modified Round-Robin scheduling algorithm in Ubuntu 32-bit kernel.

TCP Go-Back-N and Congestion Control (assignment in Computer Network)

Dec. 2017

- Learned various protocols in different layers of network (Ex. UDP, TCP, IP and HTTP).
- Simulated TCP Go-Back-N and congestion control protocols by UDP connection.

Mail Service (final project in Network Administration and System Administration)

Jun. 2017

- Learned basic knowledge of DNS, routers, Linux account management, LVM and firewall.
- Used Wireshark to detect packages and set up firewall in the assignments.
- Built a mail service with LDAP (account database), Postfix (mail server) and Dovecot (storage server).
- Used Ansible to deploy the entire service by one click.