

CHENG-EN SUNG

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SUMMARY

Possess strong background knowledge with Graph Mining, and Social Network Analysis.
Seeking a software engineering position in spring 2021, specialized in back-end software development.

EDUCATION

SEP. 2017 – JUN. 2019	National Cheng Kung University Master of Science in Computer and Communication Engineering <ul style="list-style-type: none">· Coursework: Data Mining, Big Data Analytics, Internet of Things· GPA: 3.8 / 4.0
SEP. 2013 – JUN. 2017	Yuan Ze University Bachelor of Science in Computer Science <ul style="list-style-type: none">· Coursework: Computer Graphic, Agile Software Development· GPA (Last 2yrs): 3.92 / 4.0

WORK EXPERIENCE

OCT. 2020 – FEB. 2021	Software Engineering Intern at Graphen, Inc. <ul style="list-style-type: none">· Introduced Bayesian Network into graph database as a core framework for model prediction· Implemented K2 Algorithm for network structure discovery
JUN. 2017 – AUG. 2017	Research Assistant at Yuan Ze University <ul style="list-style-type: none">· Optimized parameter for USRP Hardware Driver (UHD)· Implemented multi-threading TX/RX signal transmission on UHD in C++
JAN. 2016 – JAN. 2017	Software Engineering Intern at Industrial Technology Research Institute <ul style="list-style-type: none">· Configured <i>ModSecurity</i> for Apache server by customizing rules using <i>Regex</i>· Wrote SQL injection to access the security configuration of the firewall

PUBLICATIONS

C. -E. Sung, H. -S. Ma and J. -W. Huang, "Positive Influence Maximization and Negative Influence Minimization in Signed Networks under Competitive Independent Cascade Model," 2020 IEEE 7th International Conference on Data Science and Advanced Analytics (DSAA), sydney, Australia, 2020, pp. 236-244, doi: 10.1109/DSAA49011.2020.00036.

C. Lee, C. Sung, H. Ma, and J. Huang, "IDR: Positive Influence Maximization and Negative Influence Minimization Under Competitive Linear Threshold Model," 2019 20th IEEE International Conference on Mobile Data Management (M.D.M.), Hong Kong, 2019, pp. 501-506, doi: 10.1109/MDM.2019.00013

PROJECT

FEB. 2018 – JUN. 2018	Community Detection <ul style="list-style-type: none">· Implemented <i>SLPA</i> algorithm to discern underlying communities structure· <i>SLPA</i> algorithm out-performed <i>Louvain</i> algorithm up to 9% in Normalized Mutual Information
FEB. 2018 – JUN. 2018	Girlfriend Generator <ul style="list-style-type: none">· Implemented <i>Deep Convolutional Generative Adversarial Network</i> to generate anime characters· Adopted <i>illustration2vec</i> to conduct features tagging of generated images

COMPETITION

JUN. 28, 2017	ACM-ICPC National Contest for Private University ACM-ICPC Contest Council for Taiwan <ul style="list-style-type: none">· Ranked 19 out of 61 teams (ratio of the rank: 31.1%)
MAY 26, 2015	Collegiate Programming Examination ACM-ICPC Contest Council for Taiwan <ul style="list-style-type: none">· Ranked 114 out of 1818 participants (ratio of the rank: 6.3%)

SKILLS

SOFTWARE AND TOOLS:	OpenCV, MySQL, Sqlite, MongoDB, Git, Flask
PROGRAMMING LANGUAGE:	C/C++, Python (Keras), Java, JavaScript (ES6)