

Chen SONG

PERSONAL INFORMATION

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EDUCATION

SEP 2014 - PRESENT	B.Eng. in pursuit, COMPUTER SCIENCE, Zhejiang University (ZJU) , China GPA: 3.82/4.00, Dual Degree Program with Simon Fraser University Expected graduation: Apr 2019
SEP 2016 - PRESENT	B.Sc. in pursuit, COMPUTING SCIENCE, Simon Fraser University (SFU) , Canada GPA: 4.27/4.33, Dual Degree Program with Zhejiang University Expected graduation: Apr 2019

PUBLICATION

JUN 2018	Scalable Distributed Visual Computing for Line-Rate Processing of Video Streams Chen Song, Jiacheng Chen, Ryan Shea, Andy Sun, Arrvindh Shriraman, Jiangchuan Liu ACM Multimedia Systems (ACM MMSys) Conference 2018, Amsterdam, Netherlands • Keywords: OpenCV, Spark Streaming, Hadoop, Python
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ACADEMIC PROJECTS

MAY 2018 – PRESENT	BlendGAN: Unsupervised Generative Network to Blend Images of Disparate Distributions • Designed, implemented, and experimented on a GAN-based architecture for image blending • Supervised by Dr. Hao Zhang at Simon Fraser University and Daniel Cohen-Or at Tel Aviv University • Keywords: Generative Adversarial Networks (GANs), Keras, Tensorflow, OpenCV, Python
SEP 2017 – JAN 2018	Swift Support in WALA • Converted Swift Intermediate Language (SIL) to Common Abstract Syntax Tree (CAst) • Collaborated with Dr. Karim Ali at University of Alberta and Dr. Julian Dolby at IBM Watson • Keywords: Swift Compiler, T.J. Watson Libraries for Analysis (WALA), C++

SCHOLARSHIPS AND AWARDS

MAR 2018, SFU	VPR Undergraduate Student Research Award
FEB 2018, SFU	President's & Dean's Honour Roll
NOV 2017, ACM	5th place in ACM Pacific Northwest Regional Contest (Division 2)
OCT 2017, SFU	Mark and Nancy Brooks Computing Science Innovation Award
OCT 2017, SFU	President's & Dean's Honour Roll
OCT 2017, SFU	SFU Alumni Scholarship
SEP 2017, SFU	Undergraduate Open Scholarship
JUN 2017, SFU	Joe and Mary Merchant Scholarship in Science
DEC 2016, ZJU	Class I Scholarship for Academic Excellence
DEC 2016, ZJU	Class I Scholarship for Excellent Students
SEP 2016, SFU	SFU Zhejiang University DDP Entrance Scholarship
DEC 2015, ZJU	Class II Scholarship for Academic Excellence

STANDARDIZED TEST RESULTS

GRE: VERBAL: 158/170, QUANTITATIVE REASONING: 170/170, ANALYTICAL WRITING: 4/6
TOEFL: READING: 28/30, LISTENING: 26/30, SPEAKING: 23/30, WRITING: 28/30

WORK EXPERIENCE

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| MAY 2018 - PRESENT | Research Assistant, Graphics, Usability, and Visualization Lab, Simon Fraser University <ul style="list-style-type: none">• Designed and implemented a learning model based on Generative Adversarial Networks (GANs)• Trained the model on two domains of images and generated hybridized images• Keywords: Deep Learning, Computer Vision, Computer Graphics, Keras |
| JAN 2018 - APR 2018 | Software Engineer (Internship), Arista Networks <ul style="list-style-type: none">• Accelerated link aggregation membership updates after linecard hot-swapping events• Revised link aggregation hashing logic to support a new hashing field• Keywords: Network Switches, Link Aggregation Groups (LAGs), TACC, Python |
| MAY 2017 - JUL 2017 | Education Materials Developer, Simon Fraser University <ul style="list-style-type: none">• Designed a coding project of CMPT 365 (Multimedia Systems) for Dr. Mark Drew• Distributed to 157 students so far for two semesters• Keywords: Software Documentation, Image Processing, OpenCV, JavaFX |
| SEP 2015 - JUL 2016 | Teaching Assistant, Zhejiang University <ul style="list-style-type: none">• Assisted Dr. Chunming Wu in two introductory programming courses• Received positive feedbacks from students (available on https://chalaoshi.cn/)• Keywords: Teaching, Public Presentations, C |
| SEP 2015 - JUL 2016 | Student Assistant, Zhejiang University <ul style="list-style-type: none">• Assisted Feng Gao, head of the entrepreneurial education office, in daily correspondences• Prepared and submitted annual reports to the central government of China• Keywords: Entrepreneurship, Paperwork Preparations, Coordination of Relationships |

SUMMARY OF SKILLS

Languages: C, C++, Java, Python, MATLAB, Assembly (x86, MIPS), JavaScript, Haskell, R
Tools: GDB, PDB, OpenCV, Keras, Spark, OpenGL, MapReduce
Theories: Computer Architecture, Compilers, Object Oriented Programming