Curriculum Vitae

Zhao, Chenggang
Tsinghua University
Computer Science and Technology

Personal Data

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Education

Sep 2017 - *Current*	Undergraduate in Computer Science and Technology, **Tsinghua University**, China GPA: 3.75/4.0 (Ranking 19%, 44/222)
Sep 2014 - Jun 2017	High School Student, **Hengshui High School**, China Ranking 1% in National College Entrance Exam

Publications

Oct 2019	Student Cluster Competition 2018, Team Tsinghua University: Reproducing Performance of Multi-Physics Simulations of the Tsunamigenic 2004 Sumatra Megathrust Earthquake on the Intel Skylake Architecture, *Parallel Computing* 36 (2019) *Jiaao He,* **Chenggang Zhao,** *Jiping Yu, Xinjian Yu, Liyan Zheng, Chenyao Lou, Shizhi Tang, Wentao Han, Jidong Zhai*

Awards

Dec 2018	SC18 Student Cluster Competition **Overall Winner**, Dallas, USA *Reproduced and analyzed the performance of an earthquake simulator SeisSol, the result has been published on Parallel Computing.*
Apr 2019	ASC19 Student Cluster Competition **Silver Prize**, Dalian, China *Achieved and optimized an PyTorch implement of an ECCV paper Super-Identity Convolutional Neural Network for Face Hallucination.*
Jun 2018	ISC-HPCAIAC Student Cluster Competition **Overall Champion**, Frankfurt, Germany *Optimized the performance of Lattice Quantum Chromodynamics (LQCD) application Grid on clusters with MPI provided within HPC-X toolkit by Mellanox.*
Apr 2019	ASC18 Student Cluster Competition **Gold Prize**, Nanchang, China *Achieved and designed a 8x optimization for an electron cryo-microscopy (cryo-EM) data analyzing application RELION.*
Oct 2018	North China Area in China Parallel Application Challenge on Domestic CPU, **First Prize**, Wuxi, China *Ported and optimized GROMACS(a molecular dynamics package designed for simulations of proteins, lipids and nucleic acids) on Sunway TaihuLight.*
Aug 2018	Beijing Area in China Undergraduate Mathematical Contest in Modeling, **First Prize**, Beijing, China *Analyzed and modeled the RGV(Rail Guided Vehicle) control system using reinforcement learning method.*
Jul 2018	Hardware Design Contest, Department of Electronic Engineering, **First Prize**, Tsinghua University, Beijing, China

	Designed a Bluetooth-controlled vehicle with WiFi Camera and OpenCV face detection.
Feb 2018	Software Design Contest, Department of Electronic Engineering, **First Prize**, Tsinghua University, Beijing, China
	Designed a simple operating system in Assembly and C, 5k LoC.
Dec 2017	CCF Certified Software Professional Highest Score (**Ranking 1**/5947)
Jul 2016	National Olympiad in Informatics, **Silver Medal**, Sichuan, China
May 2016	Asia-Pacific Informatics Olympiad, **Silver Medal**, Beijing, China
May 2016	IOI China Team Selection Competition, **Silver Medal**, Beijing, China
Nov 2015	National Olympiad in Informatics in Provinces, **First Prize**, Hebei, China

Scholarships and Certificates

Nov 2019	Cai Xiong Scholarship for Science and Technology Innovation Excellence Award of Tsinghua University
Oct 2019	Science and Technology Innovation Excellence Award of Tsinghua University
Oct 2018	Science and Technology Innovation Excellence Award of Tsinghua University
Oct 2018	Volunteer Excellence Award of Tsinghua University
Oct 2019	TOEFL iBT Test®: 89

Experiences

Sep 2018 - *Current*	Member of the Student Union, Department of Computer Science and Technology, Tsinghua University
Jan 2018 - May 2019	Commissary in charge of publicity, Art Troupe of Tsinghua University
Jan 2018 - *Current*	Member of Student Supercomputing Team, Department of Computer Science and Technology, Tsinghua University

Noticeable Projects

SW-LBM	Archived LBM(Lattice Boltzmann Method) on Sunway TaihuLight
E-Analyzer	An emotion text-analyzer with CNN/RNN, final project for *Introduction to AI*
BoArtist	A SPPM realistic image renderer, final project for *Computer Graphics*
FEATURES	A massive multiplayer online web game, 14k LoC, final project for *Software Engineering*

Skills

Familar with:	C, C++, Python
Know:	Java, JavaScript, HTML, LaTeX, Assembly, System Verilog, MATLAB
Ballroom Dancing:	Waltz, Tango, Quick Step, Fox, Rumba, Cha-cha, Jive

The source code of the projects in Awards and Noticeable Projects sections are available on my GitHub.