

Guodong Liu

☎ (+86) 188 0010 0814 • ✉ liuguodong19z@ict.ac.cn • 🌐 lgd.gd
Institute of Computing Technology, Chinese Academy of Sciences

Education

Institute of Computing Technology, CAS <i>Ph.D Candidate in Computer Systems Organization</i>	Sept 2019 – Present <i>Beijing, China</i>
University of Chinese Academy of Sciences <i>B.Eng in Computer Science and Technology (GPA 3.71/4.0)</i>	Sept 2015 – June 2019 <i>Beijing, China</i>
Carnegie Mellon University <i>Visiting Student at School of Computer Science</i>	Jan 2018 – May 2018 <i>Pittsburgh, USA</i>

Projects

Optimization of distributed deployment of deep learning models	June 2019
<ul style="list-style-type: none">○ Thesis of the degree of Bachelor of Engineering.○ Constructed a performance model for neural networks.○ Used the performance model to accelerate the process of searching best distributed deployment strategy for neural networks.	
A CUDA Implementation of CMA-ES	May 2018
<ul style="list-style-type: none">○ The final project of course 15-418 Parallel Computer Architecture and Programming in CMU.○ Used CUDA to optimize Covariance Matrix Adaptation Evolution Strategy (CMA-ES) algorithm, achieved 120x speedup for 200 dimension, 400x speedup for 350 dimension.	
Implementation of 5-stage pipeline MIPS CPU	Nov 2017
<ul style="list-style-type: none">○ The final project of course Computer Architecture in UCAS.○ Implemented a 5-stage pipeline MIPS CPU and added some features to it, such as stall, forward and support of bus, interrupt and exception.	
Implementation of of a ticket-booking website	Nov 2017
<ul style="list-style-type: none">○ The final project of course Database in UCAS.○ Implemented a train-ticket-booking website, using Postgresql. We also implemented fast lookup of best route transfer solution.	

Research Experience

Institute of Computing Technology, CAS	June 2018 – May 2019
<ul style="list-style-type: none">○ Research Assistant at Center for Advanced Computer Systems.	

Technical Skills

Programming Language

- C/C++, Python, CUDA, Verilog, Java, MATLAB.

Machine Learning Frameworks

- TensorFlow, PyTorch.
- Received developer certification from Cambricon Technology in the course Intelligent Computing Systems.

Awards and Extracurricular Activities

Outstanding Guest Student, ICT	2019
Undergraduate Scholarship, UCAS	2017
Merit Student, UCAS	2016, 2017
Merit Student Cadre, UCAS	2016
Director of Propagation Department, UCAS Student Union	Aug 2016 – Aug 2017