

SHIQI HE

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EDUCATION

University of British Columbia (UBC) <i>Master of Science (MSc) in Computer Science - CGPA - 89.8/100</i> <ul style="list-style-type: none">Areas: Distributed System, Machine LearningAdvisor: Ivan Beschastnikh	09 2020 – Now Vancouver, Canada
Hong Kong Polytechnic University (PolyU) <i>BSc (HONS) Computing, Department of Computing - CGPA - 3.93/4.00</i> <ul style="list-style-type: none">Outstanding Student Award (1 / 150)	09 2016 – 08 2020 Hong Kong SAR
Korea Advanced Institute of Science and Technology (KAIST) <i>Exchange Program, School of Computing - CGPA - 3.60/4.30</i>	02 2019 – 06 2019 Deajeon, Korea

WORK EXPERIENCE

University of British Columbia (UBC) <i>Teaching Assistant</i> <ul style="list-style-type: none">Distributed Systems. Instructor: Ivan Beschastnikh	01 2021 – 04 2021 Vancouver, Canada
Microsoft Research Asia (MSRA) <i>Research Intern, System Research Group, Supervised by Dr. Yang Chen</i> <ul style="list-style-type: none">(Microsoft Hackathon 2019 Beijing) Confirmation Time Prediction in Ethereum(SOSP 2021) Forerunner: Constraint-based Speculative Transaction Execution for Ethereum<ul style="list-style-type: none">A parallel framework to accelerate Ethereum block validation reusing pre-executed smart contractsMentioned in acknowledgements	06 2019 – 09 2019 Beijing, China
Hong Kong Polytechnic University (PolyU) <i>Student Assistant, Alibaba-PolyU Research Group, Supervised by Prof. Jiannong Cao</i> <ul style="list-style-type: none">Food Traceability System: A Web App based on Hyperledger Fabric (Nodejs SDK) for food traceability<ul style="list-style-type: none">Conducted performance testing and debugging for the system and the Ionic frontend interfaceAssisted in setting up Hyperledger Fabric service in multi-node using Docker and debugging Fabric smart contract	01 2019 – 03 2019 Hong Kong SAR
Rylink Science and Technology <i>Engineer Intern, Data Service Group, Receive Return Invitation</i> <ul style="list-style-type: none">EOS Blockchain Data Synchronizer and Cold Wallet	06 2018 – 08 2018 Shenzhen, China

PUBLICATIONS

- [1] Feijie Wu, **Shiqi He**, Yutong Yang, Haozhao Wang, Zhihao Qu, Song Guo, and Weihua Zhuang. “On the Convergence of Quantized Parallel Restarted SGD for Central Server Free Distributed Training”. In: *arXiv e-prints* (2020), arXiv-2004.09125.

OTHER PROJECTS (SELECTED) & SKILLS

Graduate Course - Security and Privacy Term Paper “An Analysis of Existing Spectre Mitigations in eBPF”	2021 UBC
Graduate Course - Distributed System Term Paper “Time-Bounded API Energy Minimization Offloading Strategy in Mobile OCR Applications”	2019 KAIST
BOOX Course Group Project - An Online Book Exchange Platform HTML CSS + Bootstrap Nodejs Express Mongo dB Mixins Google Books API	2018 PolyU
Monopoly — Course Group Project - A Simplified Monopoly Game with GUI Java JavaFX	2017 PolyU

AWARDS & SCHOLARSHIPS

HKSAR Government Scholarship Fund - Talent Development Scholarship	Scholarship	2020
The Hong Kong Polytechnic University Scholarship	Scholarship	2019
Microsoft Research Asia Stars of Tomorrow Internship Program	Award of Excellence	2019
Bright Future Charitable Foundation Asian Exchange Scholarship	Scholarship	2019
2018 ACM-ICPC Asia Regional Contest Shen Yang Site	Silver Medal	2018
2018 EY (Ernst & Young) Cyber Asia Case Competition	First Runner-up Team (HK\$10,000)	2018
24-Hour IEEE Xtreme Programming Competition 11.0	World Top 30 (3%)	2017
PolyU COMP Freshman Project Competitions	First Runner-up Team	2016
China National Olympiad in Informatics in Provinces (NOIP)	First Prize (Hunan Province)	2014

EXTRACURRICULAR

The 14 th PolyU Chinese Mainland Students' Association (CMSA) - IT Secretary	Hong Kong SAR	2018
<ul style="list-style-type: none">• Held School eSport Contest for 100+ competitors• Provided tech and media support for activities		
Cultural Exchange Program at Kochi University of Technology	Japan	2017
Service-Learning Program	Cambodia	2017
<ul style="list-style-type: none">• Build Solar Panels in a Rural Area		
Zonta International Golden Z Club Tutoring	Hong Kong SAR	2017
<ul style="list-style-type: none">• Aided with South Asian children's homework		
The 15 th Heart Fire Winter Volunteer Teaching	Hainan, China	2016