

Stephen Shang Yi Liu

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Education

Case Western Reserve University **Cleveland, Ohio**
M.Sc. Mathematics, Cumulative GPA: 4.00 *2018–2020*
Master's Thesis: "On the asymptotic behavior of the magnitude function for odd-dimensional Euclidean balls"
advised by Professor Mark Meckes

Case Western Reserve University **Cleveland, Ohio**
B.Sc. Applied Mathematics, Cumulative GPA: 3.975 *2016–2020*
Senior Thesis: "The Magnitude of a Finite Metric Space" advised by Professor Mark Meckes

Chinese International School **Hong Kong, Hong Kong S.A.R.**
Bilingual I.B. Diploma, Final Score: 41/45 *2009–2016*
Mathematics HL, English A Literature HL, Computer Science HL, Chinese A Language and Literature SL,
History SL, Physics SL

Employment

EMALI.IO **Hong Kong**
Blockchain Engineer *June 2020 – Present*
Prototyped and developed blockchain applications using Hyperledger Fabric. Administered training for other engineers on blockchain technology.

EMALI.IO **Hong Kong**
Software Development Intern *Summer 2019*
Prototyped front-end and back-end web services utilizing blockchain technology (Hyperledger Fabric and Hyperledger Composer). Produced and presented training materials for learning blockchain technology for an audience of 10 engineers at a large logistics company.

Case Western Reserve University
Supplemental Instruction Leader *Spring 2017–Spring 2018; Fall 2019 – Spring 2020*
Taught optional group tutoring sessions for students in 1st and 2nd year engineering and computer science courses (introduction to materials science and data structures and algorithms course). Sessions were twice a week for a duration of 1.5 hours each routinely with an attendance of 20 - 40 students. Designed and lead group activities for students to review material covered in lecture and practice problem solving techniques required for homework and exams.

The Momentum Group (now Chatly.com) **Guangzhou, China**
Software Development Intern *Summer 2017*
Developed chatbots using Node.js and Microsoft Botbuilder Framework for integration into WeChat Messenger. Built in-house chatbot administration system for on-demand creation of new chatbots with custom conversation trees.

Projects and Research

Case Western Reserve University
Master's Thesis *Fall 2019 - Spring 2020*
Title: On the asymptotic behavior of the magnitude function for odd-dimensional Euclidean balls

Case Western Reserve University
Senior Thesis *Spring 2019*
The Magnitude of a Finite Metric Space

Case Western Reserve University*Undergraduate Reading Course**Summer 2018*

Reading course in category theory, following “Basic Category Theory” by Tom Leinster (University of Edinburgh)

Honors, Awards and Scholarships

Case Western Reserve University*The Max Morris Prize**Spring 2020*

For excellence in mathematics to a student pursuing the Bachelor of Science degree.

Case Western Reserve University*Phi Beta Kappa Award**Spring 2018*

Awarded to sophomores with highest grade point average.

Case Western Reserve University*Dean's High Honors**2016–2020***Chinese International School***Konberg Ngai Award for Bilingual Excellence**Spring 2016***Skills**

Languages: Fluent in English, Putonghua and Cantonese

Technology: Proficient in Java, Python, Arduino, Javascript (including Node.js), MATLAB and LaTeX