

# Tianmu Lan

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## EDUCATION

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### Brown University

*Master in Computer Science*

Providence, RI

Sept 2017 – May 2019

### University of Michigan

*B.S in Computer Engineering, GPA 3.5*

Ann Arbor, MI

Sept 2015 – May 2017

### Shanghai Jiao Tong University

*B.S in Electrical and Computer Engineering (UM-SJTU Joint Institute), GPA 3.5*

Shanghai, China

Sept 2013 – Aug 2017

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## PROFESSIONAL EXPERIENCE

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### Chinese Academy of Science (CAS)

*Researcher, Big Data Department, Institute of Software*

Beijing, China

May 2016 – July 2016

- Program a web crawler to collect data for UCAR Geography Database
  - Help to develop the Shiny App to visualize geological data sets
  - Solve the callback errors for Data Cloud of CAS
  - Research on how to simultaneously run and control multiple R program though a single C program
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## PROJECT EXPERIENCE

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Major design project - *Automatically Video Encoder Test Suite*, a project sponsored and mentored by *Intel*

- Lead the group and be responsible for communication with our mentor
- Develop the performance test module, which decrease manually workload over 90%

Game design group project - *Sub-zero Escape*, a 2-player puzzle solving skating game

- Make animation for the character by using 3Ds Max
- Develop the logic of enemies and traps by using C# in Unity
- Design one third of the levels, which are played and appreciated by hundreds of people
- Win second prize in expo and the game is permanently saved in UM game machine

Game design personal project - *Falling to the Depth*, an endless running game

- Develop the game and design game mechanism by using C# in Unity
- The top design and the best game for the course Game Design

Computer vision project - *the Great Arm*, a program that can mark where the lecturer points at on the screen

- Provide the idea of this best project for the course Computer Vision
  - Collect the dataset, which is over 20 GB in total
  - Develop the camera calibration module and point detection algorithm in MATLAB
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## LEADERSHIP AND ADVERTISING EXPERIENCE

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- Administer the website of UM-SJTU Joint Institute Media Department over one year, with over 150,000 browsing volume till now
  - Minister of the Student Union Media Department of UM-SJTU Joint Institute and lead the department to be awarded the Outstanding Student Organization Prize in 2015
  - “Mayor of Beijing” in “Joint Departure” program, a social practice to expand university influences, with over 700 students from 4 senior high schools to participate my lectures
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## TECHNICAL PROFICIENCIES

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Programming Language: C/C++, Verilog, python, SQL, C#(unity), MATLAB

Photo/Video Editing: Lightroom, Photoshop, Premiere

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For more details, please visit my website: <http://tianmu.world/index.php/profile/>