

# Yuyang(Peter) Rong

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## EDUCATION

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### ShanghaiTech University

*Computer Science*

Aug 2015 - Present

*Shanghai, China*

- Overall GPA 3.79/4, CS related GPA 3.89/4, ranking top3%.

### University of Chicago

*General Study*

Jul 2016 - Aug 2016

*Chicago, IL*

- Intensive English & Statistics, got A in both.

## RESEARCH

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### CSST, UCLA

*Summer Intern*

Jul 2018 - Sept 2018

*Los Angeles, CA*

- Supervised by Prof. Lixia Zhang, I worked on Named Data Networking(NDN),
- Focused on OpenmHealth. Updated it with a new identity manager utilizing NDNCERT.

### ShanghaiTech

*Lab Intern*

Nov 2017 - Jun 2018

*Shanghai, China*

- Worked on and inexact first-order method for constrained nonlinear optimization.
- Wrote Python code using numpy to verify that our code works.

### STAR Lab, ShanghaiTech

*Lab Intern*

Jun 2017 - Sept 2017

*Shanghai, China*

- Supervised by Prof. Sören Schwertfeger in STAR Lab(Now MARS Lab).
- Multi-robot mapping problem.
- Used VLP16, tried Gmapping & Cartographer.

## EMPLOYMENT

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### Toutiao, Bytedance

*Research Intern*

Step 2018 – Present

*Beijing, China*

- Work in Security Lab lead by Prof. Hao Chen. Focus on fuzzing problem.
- My work focus on triggering constrained integer overflow by instrumenting source code using LLVM.
- Involving Rust, C, and C++ coding.

### ABB Group

*Research Intern*

Oct 2017 – Jul 2018

*Shanghai, China*

- Group of 10. Tried to combine robot arm and an indoor mobile car.
- Responsible for software development, including **navigation system** & **state machine**.
- Python, C++ and ROS used.

## Bookends

June 2017 - Sept 2017

*Marketing Intern*

*Shanghai, China*

- Startup company focusing on kid's education.
- Helped understand the children education market.
- Established a financial model with pricing for the company.

## ShanghaiTech

Sept 2016 – Jul 2018

*Teaching Assistant*

*Shanghai, China*

- Held office hour, lab, discussion, and grade homework.
- Team of 10, more than 200 enrollments every year.

## PROJECT HIGHLIGHTS

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### Screen++

Jun 2017

*Team leader*

*Shanghai, China*

- Proposed an application to connect all the screens in different platforms.
- Development & market model. Did final presentation.
- Python & Apache used. Group of 5. Won the 3rd prize in iLab Hackathon.

### SafeBox

May 2017

*Team member*

*Shanghai, China*

- Group of 2. Got A for that course project.
- Proposed a visualization technology to create a sandbox.
- Catch every system call and fail the ones we consider unsafe.
- Rust & C used on Linux.

### iGEM

Jul 2016

*Team member*

*Shanghai, China*

- Group of 16. Silver Metal.
- The team focused on intestinal disease.
- I helped them developed the web page and poster.
- HTML & PhotoShop used.

### SafeHub

Jul 2016

*Team leader*

*Shanghai, China*

- Group of 5. Best design in that course.
- The team was concerned about the elderly's safety when taking a bath.
- Designed a bathtub in which people cannot slip.

## PRESENTATIONS & TALKS

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**Presentation:** *Nonlinear Optimization Methods*

Aug 16th, 2018

Session Chair

*Leigh University*

**Talk:** *Welcome to New Student*

Sept 16th, 2017

Invited Student

*ShanghaiTech*

**Interview:** *China's Challenges Season 3*

July 6th, 2017

ShanghaiTech Student representative  
**Presentation: *I Know where Your Bug Is***  
ACM/ICPC Club representative

*ShanghaiTech*  
10th Mar 2016  
*ShanghaiTech*

## AWARDS

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<b>Outstanding Student</b>	Nov 2017
<b>ShanghaiTech President's Scholarship</b>	Nov 2016
<b>Shanghai Scholarship</b>	Oct 2016

## TECHNICAL STRENGTHS

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<b>Languages</b>	Chinese, English
<b>Computer Languages</b>	Rust, Java, C++, C, Python, MATLAB
<b>Protocols &amp; APIs</b>	LLVM, Android, boost, ROS, numpy