

Yuyang(Peter) Rong

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EDUCATION

ShanghaiTech University

Aug 2015 - Present

Computer Science

Shanghai, China

- **Overall GPA 3.80/4(Ranking 5/124).**
- CS related GPA 3.90/4(Self-calculated data, ShanghaiTech keeps no official record of major related GPA).

University of Chicago

Jul 2016 - Aug 2016

General Study

Chicago, IL

- Intensive English & Statistics, got A in both.

RESEARCH

CSST, UCLA

Jul 2018 - Sept 2018

Summer Intern

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 NDN CERT.

ShanghaiTech

Nov 2017 - Jun 2018

Lab Intern

Shanghai, China

- *An Inexact First-order Method for Constrained Nonlinear Optimization* submitted to *SIAM Journal on Optimization*.
- Contributed to subproblem algorithm.
- Wrote Python code using numpy to verify that our method works.

STAR Lab, ShanghaiTech

Jun 2017 - Sept 2017

Lab Intern

Shanghai, China

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

EMPLOYMENT

Toutiao, Bytedance

Step 2018 – Present

Research Intern

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

Oct 2017 – Jul 2018

Research Intern

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

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

Presentation: *Nonlinear Optimization Methods*

Aug 16th, 2018

Session Chair

Lehigh University

Talk: *Welcome to New Student*

Sept 16th, 2017

Invited Student

ShanghaiTech

Interview: *China' s Challenges Season 3*
ShanghaiTech Student representative
Presentation: *I Know where Your Bug Is*
ACM/ICPC Club representative

July 6th, 2017
ShanghaiTech
10th Mar 2016
ShanghaiTech

AWARDS

Outstanding Student	Nov 2017
ShanghaiTech President's Scholarship	Nov 2016
Shanghai Scholarship	Oct 2016

TECHNICAL STRENGTHS

Languages	Chinese, English
Computer Languages	Rust, Java, C++, C, Python, MATLAB
Protocols & APIs	LLVM, Android, boost, ROS, numpy