

Yuyang(Peter) Rong

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EDUCATION

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

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

- *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

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

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

Marketing Intern

June 2017 - Sept 2017

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

Teaching Assistant

Sept 2016 – Jul 2018

Shanghai, China

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

PROJECT HIGHLIGHTS

Screen++

Team leader

Jun 2017

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

Team member

May 2017

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

Team member

Jul 2016

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

Team leader

Jul 2016

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*

Session Chair

Aug 16th, 2018

Lehigh University

Talk: *Welcome to New Student*

Sept 16th, 2017

Invited Student

Interview: *China' s Challenges Season 3*

ShanghaiTech Student representative

Presentation: *I Know where Your Bug Is*

ACM/ICPC Club representative

ShanghaiTech

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