

# Yuyang(Peter) Rong

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## EDUCATION

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**ShanghaiTech University**

Sep 2015 - Present

*Computer Science*

*Shanghai, China*

- **Overall GPA 3.80/4(Ranking: 5/124);**
- Major GPA 3.90/4(Self-calculated data, ShanghaiTech keeps no official record of major related GPA);
- Elected 5 graduate level courses; got A in **Systems Programming with Rust, OS II** and **Robotics**.

## EXPERIENCE

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**Bytedance**

Sep 2015 - Present

*Research Intern*

*Beijing, China*

- Security Lab lead by Prof. Hao Chen, main work focuses on integer overflow;
- Focus on triggering constrained integer overflow by instrumenting source code using **LLVM**;
- **IntEgrity: finding integer errors by targeted fuzzing** submitted to S&P20, currently under review.

**CSST, UCLA**

Jul 2018 - Sep 2018

*Summer Intern*

*Los Angeles, CA*

- Supervised by Prof. Lixia Zhang; focused on **Named Data Networking(NDN)**;
- Focused on OpenmHealth. Updated it with a new identity manager utilizing NDNCERT;
- Self-taught Android development and updated the application in two months. Java and C++ used.

**ABB Group**

Oct 2017 - Jun 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** to switch states when executing an order;
- Python, C++ and Robot Operating System(ROS) used.

**STAR Lab, ShanghaiTech**

Jun 2017 - Sep 2017

*Lab Intern*

*Shanghai, China*

- Supervised by Prof. Sören Schwertfeger in STAR Lab(Now MARS Lab);
- Investigated on **multi-robot mapping** to help fasten mapping process;
- Used VLP16, tried Gmapping, Cartographer and our modified version.

**Bookends**

Jun 2017 - Sep 2017

*Marketing Intern*

*Shanghai, China*

- **Bookends** is a startup company focusing on kid's education;
- Helped understand the children education market;
- Established a financial model with pricing for the company.

## PROJECT HIGHLIGHTS

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**Screen++**

Jun 2017 - Jun 2017

*Team leader*

*Shanghai, China*

- Proposed an application to connect all the screens in different platforms;
- Responsible for the software development & market model; I also did the final presentation;
- Python & Apache used. Group of 5 and won the **3rd prize** in iLab Hackathon.

### **SafeBox**

Jun 2017 - Jul 2017

*Team member*

*Shanghai, China*

- Course project for graduate level Operating System, group of 2;
- Implemented a visualization technology to create a sandbox;
- Using *ptrace*, we catch every system call and fail the ones that we consider unsafe.
- Rust & C used on Linux.

### **SafeHub**

Jun 2016 - Jul 2016

*Team leader*

*Shanghai, China*

- Course project for *Design Thinking*, best design in that course;
- In a group of 5, our team was concerned about the safety of the elderly when taking a bath;
- Designed a bathtub in which people cannot slip.

### **iGEM**

Nov 2015 - Jul 2016

*Team member*

*Shanghai, China*

- Group of 16, **Silver Metal**, focused on intestinal disease;
- Finished the web page and poster.

## **TEACHING EXPERIENCE**

### **CS110: Computer Architecture I**

2018 Spring Semester

Leading Teaching Assistant

*ShanghaiTech*

### **SI100C: Introduction to Computer Science**

2017 Fall Semester

Leading Teaching Assistant

*ShanghaiTech*

### **SI100: Introduction to Information Science and Technology**

2017 Spring Semester

Teaching Assistant

*ShanghaiTech*

### **CS100: Introduction to Programming**

2016 Fall Semester

Teaching Assistant

*ShanghaiTech*

## **AWARDS**

### **Outstanding Student**

Nov 2017

### **ShanghaiTech President's Scholarship**

Nov 2016

### **Shanghai Scholarship**

Oct 2016