

# Bingxiang He

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#### Tsinghua University, Beijing

09, 2020 - present

Undergraduate Dept. of Computer Science, graduate on 06, 2024

### Main courses and academic performance

GPA: 3.97/4.0, Rank: 4/181

**A+**: English for Academic Purposes (A): Spoken Communication, Probability and Statistics, Physics for Scientists and Engineers B(2), Artificial Neural Networks

A: Fundamentals of Computer Science, Fundamentals of Programming, Programing and Training, Foundation of Object-Oriented Programming, Assembly Language Programming, Calculus A(1), Calculus A(2), Linear Algebra, Advanced Topics in Linear Algebra, Discrete Mathematics(1), Physics for Scientists and Engineers B(1), Introduction to Artificial Intelligence, Software Engineering, Digital Logic Circuit, Digital Logic Experimentation, Fundamentals of Computer Graphics, Introduction to Modern Cryptography, Principles of Signal Processing, Principles and Practice of Compiler Construction, Introduction to High Performance Computing, Operating Systems, Database Special Topic Training, Cybersecurity Fundamentals

A-: Introduction to Complex Analysis, **Data Structures**, **Numerical Analysis**, **Computer Network Security Technology**, **Computer Architecture** 

### **P** Honors & Awards

1. Second Prize in Freshmen Scholarship, Tsinghua University	09, 2020
2. Second Prize in National Undergraduate Physics Competition, Beijing Physics Society	04, 2021
3. Comprehensive Excellence Award for the 2020-2021 school year, Dept. of CST	10, 2021
4. Gold Award in Social Practice, Communist Youth League Tsinghua University Committee	04, 2022
5. Third Prize in THU Challenge Cup Academic Competition, Tsinghua University	04, 2022
6. December-9th Scholarship, highest scholarship in Dept. of CST	10, 2022

## </> PROJECT EXPERIENCES

1. CodePlay: Website Development of the 39th Student Festival

10,2021-12,2022

- Front-end framework: React
- Language: JavaScript, TypeScript, Html, CSS, CSS3
- Responsibilities: front-end components and logic
- Project: https://github.com/HBX-hbx/CodePlay\_frontend

2. ReqMan: Demand Management System

03, 2022 - 06, 2022

- Front-end framework: React
- Language: JavaScript, TypeScript, Html, CSS, CSS3
- · Responsibilities: front-end component, logic and communication between front-end and back-end
- Project: https://github.com/HBX-hbx/ReqMan-frontend

3. OpenBackdoor: An open-source toolkit for textual backdoor attack and defense

04, 2022 - 09, 2022

- Directed by Associate Professor Zhiyuan Liu, THUNLP
- Summarize three practical scenarios of attack methods based on their accessibility and goals
- Conclude novel metrics for three evaluation dimensions and recommend scenario-specified evaluation methodologies
- Develop an open-source toolkit OpenBackdoor and conduct extensive benchmark experiments
- Propose CUBE, a simple yet strong baseline method targeting purifying poisoned datasets
- Second author. Paper submitted to NeurIPS 2022 D&B

4. Chrome Extension Development 【AtomEcho: Webpage to Table】

09, 2022 - 12, 2022

- Front-end framework: React
- Language: JavaScript, TypeScript, Html, CSS, CSS3
- Internship location: AtomEcho, Beijing
- Responsibilities: Core Member
- Project: Registered in the Chrome Web Store

## RESEARCH EXPERIENCES

1. Research Group for Safe NLP Systems

09, 2021 – present

• OpenBackdoor: An open-source toolkit for textual backdoor attack and defense [paper]

## FIT SKILLS

- Computer Language: C/C++ == Python > JavaScript == TypeScript > SQL
- Platform: Linux, Windows
- Tool: Git, SSH, Make, Tmux, Markdown, LaTeX
- Full-stack development: React, Django, Nginx, MySQL
- CET6: 571