

# JIAQI WU

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Portfolio: <https://kolvacs-w.github.io/WJQ.github.io/>

## EDUCATION

### School of Computer Science, Fudan University

Bachelor of Information Security

Junior Year GPA: 3.63/4.0; Cumulative Major GPA: 3.56/4.0

Shanghai, China

*Expected July 2022*

#### Relevant Coursework:

Algorithm Design and Analysis (A), Introduction to Computer System I/II (A-/A), Software Security (A),  
The Fundamental Mathematics for Information Security II (A), Digital Film and Animation(A)

## RESEARCH EXPERIENCE

### Hong Kong University of Science and Technology

*July 2021–Present*

*Research Scholar (Development of Efficient AR Prototype)*

- Defined a new concept of creative AR prototype of shape-based art effects and devised its working principle
- Trained a CoreML CV model with >95% accuracy and applied it to build a handDraw-based AR generation iOS app for user investigation using Apple ARKit
- Implemented systematic classification for AR prototypes and used Reality Composer and Adobe Aero to improvise numerous prototypes for research study
- Conducted a study to evaluate and optimize the design space to obtain a HCI-oriented systematic workflow

### Tsinghua University • Fudan University

*December 2020–Present*

*Research Scholar (Big Data and Social System)*

- Used JavaScript, Python, and Node.js to design and utilize multiple functionalities (file downloading, organization management, etc.) of a mobile application for social activity data processing
- Designed the operation framework for the connection and transportation between the front-end and back-end system, and optimized the compatibility and data transmission problems to alleviate data overloading, synchronous access, and inefficient compression problems
- Established publicly accessible system with a user-friendly social management and organization tool for social data analytics

### Fudan University

*November 2020–December 2020*

*Group Project (Analysis of Online Movie critique)*

- Developed a network spider with Python Depth-First-Search to gather and pre-process 18K+ public online movie critics on Douban
- Applied LSTM to train an emotion prediction model for movie comments and verified accuracy by user study
- Applied Jieba module for text segmentation, implemented word embedding and de-noise to get concrete emotion wordset, and made thorough analysis of online film critics

### Fudan University

*August 2020–November 2020*

*Research Assistant (Security of Mobile Applications)*

- Analyzed application security on Android devices
- Used Java and Python to optimize application security analysis with a series of simulated hacking and defense mechanisms
- Utilized JEB and Jadx to enhance ease-of-use on several versions of Android device applications

## SELECTED AWARDS

- Fudan University Outstanding Student in 2019–2020 *Oct. 2020*
- Fudan University Outstanding Undergraduate Student Scholarship, Third prize (twice) *Oct. 2020, Oct. 2021*
- Best Project Design Officer of Fudan University Student Union *Dec. 2018*

## SKILLS AND OTHER

**Programming:** Python, C/C++, JavaScript, Java, ARKit, JEB/Jadx

**Languages:** Chinese (Native), English (fluent; TOEFL iBT: 106 (speaking: 25), GRE: V-159 + Q-169 + AW- 4.0)

**Art & Design:** Sketching, painting, video editing, storyboarding, photography, Nuke, Final Cut Pro, Premiere