

Erzheng Fu

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EDUCATION

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

@ Carnegie Mellon University – Silicon Valley

[Incoming] Jan. 2023 – May 2024

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND TECHNOLOGY

@ Fudan University, Shanghai

Sep. 2018 – June 2022

- **Outstanding Student Scholarship** (2021-2022, 2020-2021 School Year), **Outstanding Freshman Scholarship** (2018)
- Related Coursework: Object-Oriented Programming, Data Structures, Algorithms, Databases, Computer Architecture, Operating Systems, Machine Learning, Linear Algebra, Probability and Statistics

PROFESSIONAL EXPERIENCE

ALGORITHM INTERN @ bilibili Group – AI Tech Dept, Shanghai

May 2021 – Present

- Supported the recommender system of *bilibili*, a popular video-sharing application with tens of millions of daily active users, and worked on multiple projects including re-ranking and diversity control strategies, user blacklist, etc.
- Developed two content-based approaches cooperating with the NLP group to match candidates for the recommender system, one to detect potential episodes from video series, and the other to match videos with similar titles using the BERT model
- Designed and implemented business intelligence (BI) from scratch for the recommender system, which provides analytical support for user growth strategies and everyday in-group convo

ARTIFICIAL INTELLIGENCE INTERN @ ByteDance – Data Dept, Shanghai

Jan. 2021 – Apr. 2021

- Accessed feed requests from multiple platforms (*TikTok*, *Douyin*, etc.) to the advertising system's landing page optimization service, achieving a higher conversion rate and offering better user experiences
- Implemented a mechanism by FreeType to support more fonts in different languages on the online advertising image rendering service for the company's international advertisers and detected unsupported characters

RESEARCH ASSISTANT @ SONIC laboratory, Fudan University, Shanghai

Apr. 2019 – Feb. 2022

- Worked as an undergraduate research assistant at Mobile Systems and Networking (MSN) Group, supervised by Dr. Chen Yang
- Conducted the research project *Understanding the User Behavior on GitHub: A Data-Driven Approach* to look into the structural hole theory on the GitHub interaction network from the perspective of the interdisciplinary of sociology and computer science
- Results of above-mentioned project were published as paper (see: PUBLICATION) and won **Winning Award** (1st place) of the *Tengfei Research Competition* in May 2021

AWARDS AND HONORS (SELECTED)

- Incoming - **Outstanding Graduate of Fudan University**
- Feb. 2021 - **Silver Medal** in the 2020 ICPC Asia-East Continent Final Contest
- Dec. 2020 - **Gold Medal** in the 2020 ICPC Asia Regional (Shanghai)
- Dec. 2019 - **Outstanding Officer Award** of Tengfei College, Fudan University
- Nov. 2018 - **First Prize** of the Fudan University Programming Competition (5th place)
- Dec. 2016 - **First Prize** of the National Olympiad in Informatics in Hunan Provinces (NOIP 2016)

PUBLICATION

Understanding the User Interactions on GitHub: A Social Network Perspective, Proc. of the IEEE 24th International Conference on Computer Supported Cooperative Work in Design (CSCWD'21), May 2021

Co First Author

PROJECTS

 BURSTY EVENT DETECTION IN NEWS STREAMS

Fudan University, Fall 2021

- Transformed the batch bursty event detection algorithm proposed by *Parameter Free Bursty Events Detection in Text Streams*, VLDB'05 to the streaming form, implemented it on the Apache Storm system, and proposed several practical optimizations to improve both efficiency and feasibility

INVOLVEMENT

Team Member @ ACM-ICPC Team, Fudan University

Sep. 2018 – June 2021

Deputy Minister @ Tengfei College – Publicity Department, Fudan University

Sep. 2018 – Sep. 2020

SKILLS

- **Coding:** C/C++, Python, Java
- **Tech Stack:** Linux, Git, MySQL, Redis, Hadoop, MapReduce, Airflow, Storm, MATLAB
- **Languages:** English (TOEFL iBT 109, GRE Verbal 157), Chinese (Native)
- **Others:** Piano (Amateur Level 10 certificated by Shanghai Conservatory of Music), Guitar, Graphic design (Photoshop)