

# WENYUAN XU

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## Education

### Aarhus University

*Ph.D. Computer Science*

Aarhus, Denmark

*Aug. 2022 – Now*

### Nanjing University

*M.Sc. School of Software Engineering*

Nanjing, China

*Sept. 2018 – Jun. 2020*

### Yangzhou University

*B.Sc. College of Information Engineering*

Yangzhou, China

*Sept. 2014 – Jun. 2018*

- Cumulative Grade Point Average: 3.93/5.0(88/100)
  - Integrated Ranking: 1/54
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## Research Experience

### Professor Anders Møller's Group(CASA)

*Intelligent Software Security Testing*

Aug. 2020 – Now

*Aarhus, Denmark*

- Research Project
  - \* Detecting Malicious JavaScript Software with Static Resource Analysis
  - \* Securing node.js programs with static resource analysis
- Product
  - \* Jelly, Jelly is a static analyzer for performing call graphs construction and vulnerability exposure analysis. Please note that I am working on a private branch so you won't see me show up in contributors right now.

### Professor Zhenyu Chen's Group(iSE Lab)

*Intelligent Software Security Testing*

Sept. 2018 – Jun. 2018

*Nanjing, China*

- Research Project
  - \* Human-machine collaborative mobile application testing based on comprehensible information fusion
  - \* Exploring mobile application testing technology based on AI middle platform
  - \* Exploring Key Technologies to Improve the Detecting Ability for Auto-dispatching Software's Security Vulnerabilities and Risks.
- Product
  - \* MLBasedSAST, a Java Vulnerability Scanner combined with traditional taint analysis and machine learning technique. Please refer to my graduate thesis for more information
  - \* ApkSec, A framework for Android APK security analysis
- Chinese Patent
  - \* A mutation-based fuzzy testing method for smart contracts (2019100516304)
  - \* A method to predict Android source code's risk level (201810092876.1)

### Professor Xiaobing Sun's Group(Risame Lab)

*Software Recommendation System*

May 2016 – Jun. 2018

*Yangzhou, China*

- Research Project
  - \* Exploring Key Techniques in Change Analysis and Prediction based on Mining Hybrid Software Data
- Chinese Patent
  - \* A Personalized Software Recommendation Method for Open Source Community (201610486067.X)
- Publications

- \* **Wenyuan Xu**, Xiaobing Sun, Xin Xia, and Xiang Chen. Scalable Relevant Project Recommendation on GitHub. In Proceedings of the 9th Asia-Pacific Symposium on Internetware (Internetware), 2017. Association for Computing Machinery, New York, NY, USA, Article 9, 1–10. DOI:10.1145/3131704.3131706
- \* **Wenyuan Xu**, Xiaobing Sun, Jiajun Hu and Bin Li, REPERSP: Recommending Personalized Software Projects on GitHub. In 2017 IEEE International Conference on Software Maintenance and Evolution (ICSME, Tool Demo), 2017, pp. 648-652. DOI: 10.1109/ICSME.2017.20
- \* Xiaobing Sun, **Wenyuan Xu**, Xin Xia, Xiang Chen and Bin Li . Personalized project recommendation on GitHub. Science China Information Sciences, 61, 050106, 2018. DOI:10.1007/s11432-017-9419-x (I'm the first author except my supervisor)

## Work Experience

- Security Engineer (SDL)** Jul. 2020 – Present  
*Taobao (China) Software Co., Ltd. Alibaba Group* *Hangzhou, Zhejiang, China, full-time*
- Using static and dynamic analysis to improve web software security.
  - Building our Benchmark for evaluating analysis tools. Partically opened source in [taint-benchmark](#).
- Security Engineer** Jul. 2019 – Sept. 2019  
*Taobao (China) Software Co., Ltd. Alibaba Group* *Hangzhou, Zhejiang, China, full-time*
- Research on software vulnerabilities, especially 0-day or 1-day. I need to write exploits, find some way to detect them, and consider how to repair them.

## Extracurricular Activities and Awards

- Team rank 1/? in KTH-Chalmers-Aarhus CTF challenge, 2023
- Team rank 21/570 in Fireshell CTF, 2019
- Individual rank in 198/4909 in DDCTF, 2019
- Team rank 52/3263 in DIAN FENG Geek CTF, 2018
- Outstanding graduates at Yangzhou University, 2018
- The second price in excellent undergraduate graduation project in Jiangsu Province, 2018
- National Scholarship, both 2016 and 2017
- The second price in LAN QIAO Collegiate Programming Contest, 2017
- Individual rank 121/2000 in China Information Security Game, 2015
- The second price in CUMCM (China Undergraduate Mathematical Contest in Modeling), 2015
- The second price in China Collegiate Computer Program Design Contest, 2014
- The second price in Tianyi Cup CTF in Jiangsu Province, 2014

## Research Interests

- Static or Dynamic Programming Analysis
- Program and System Security
- AI for Security

## Teching Experience

Compiler, 2022 Autumn