

Yufei Jiang

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To obtain a Security Engineer, or a Software Development Engineer position.

EDUCATION

PENNSYLVANIA STATE UNIVERSITY

PH.D. IN SOFTWARE SECURITY
COLLEGE OF INFORMATION SCIENCES AND TECHNOLOGY
Aug. 2011 - April. 2017 (expected)
GPA: 3.8/4.0

NANJING UNIVERSITY

BE IN SOFTWARE ENGINEERING
SOFTWARE INSTITUTE
Sep. 2007 - Jun. 2011
GPA:86/100 RANK:21/254

SKILLS

PROGRAMMING LANGUAGES

Java • C++ • C • Python • Shell •
L^AT_EX • Prolog • Javascript • ML

METHODOLOGY

OOP • RESTful Web Service • CI/CD •
Scrum • MVC

WEB FRAMEWORK

Apache Web Server • Java Spring •
Swagger • JAX-RS

DATA

MySQL • Hadoop • TensorFlow •
MongoDB

TESTING

JUnit • Mockito • Cucumber • QTP •
Guitar

SOFTWARE OBFUSCATION

Code Virtualizer • VMProtect

SERVICE

GRADUATE ASSISTANT

Teaching Assistant of IST451 Network Security • Teaching Assistant of IST220 Network and Telecommunications 3 semesters in a row. • Research Assistant at Software System Security Lab.

OPEN SOURCE COMMUNITY

Code contributor to OpenWonderland community. • Giving multiple online demo sessions and attending meet-ups.

PAPER REVIEW

External Reviewer of ICSE-SEIP2016 • ENASE2015

EXPERIENCE

YAHOO! | SOFTWARE DEVELOPMENT INTERN

May. 2016 - Aug. 2016 | Sunnyvale, CA

- Improved Yahoo membership production data traffic anti-abuse classification by building data pipeline on Yahoo account registration data and training deep learning models.
- Queried the reported reputation of entities in the traffic from external sources including Facebook ThreatExchange.

YAHOO! | SOFTWARE DEVELOPMENT INTERN

May. 2015 - Aug. 2015 | Sunnyvale, CA

- Designed and implemented a new internal account creation web service based on JAX-RS for quality assurance purpose in a team of four.
- Gained first-hand experience on industry-strength workflows including agile development, test driven development, and CI/CD pipelines.

SELECTED RESEARCH PROJECTS

TOWARDS SECURE LEAN JAVA SOFTWARE, SPONSORED BY OFFICE OF NAVAL RESEARCH

- Helped developers and users remove redundant code and features by using interprocedural data flow analysis and slicing technology.
- Implemented a tool called JRed based on Soot Java byte code transformation framework to make software have smaller size and better security.
- Media Coverage: **Bloatware as a security risk: Researchers' innovative ways to combat the scourge**

MULTILINGUAL SOFTWARE OBFUSCATION

- Obfuscated the software program by mixing two programming-paradigm-heterogeneous languages (e.g. C and Prolog).
- Provided effective and stealthy software obfuscation, while the cost is only modest compared to one of the most popular commercial obfuscators on the market.

AWARDS

2015	NDSS 2015 Student Grants Award
2012	Robert W. Graham Endowed Graduate Fellowship
2011	Excellent Project Award in CHIPS (China Innovation Program for Students) Contest
2010	Excellent Project Award in Citi Cup Financial & Information Technology Application Contest
2007-2010	Renmin Scholarship

SELECTED PUBLICATIONS

9 publications in total. Google Scholar Link: Yufei Jiang

Yufei Jiang, Dinghao Wu, Peng Liu. **JRed: Program Customization and Bloatware Mitigation Based on Static Analysis** in *The 40th IEEE Computer Society International Conference on Computers, Software & Applications (COMPSAC2016)*, Atlanta, Georgia, USA, June 10-14, 2016.

Yufei Jiang, Can Zhang, Dinghao Wu, Peng Liu. **A First Step Towards Feature-based Software Customization** in *Proceedings of the 17th IEEE High Assurance Systems Engineering Symposium (HASE 2016)*, Orlando, Florida, USA, January 7-9, 2016.