

CURRICULUM VITAE

ZHIQIANG WU

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I am Ph.D. student in Computer Science and Engineering at Hanyang University, South Korea. My major research field is Software Engineering. The objective of my research is to improve the security on mobile system. My interests include Mobile Security, Software Refactoring and Deep Learning.

Education

Hanyang University, South Korea

2017 - Present

Doctor of Philosophy in Computer Science and Engineering

Supervisor: Scott Uk-Jin Lee

Cumulative GPA: 4.0/4.5

Hanyang University, South Korea

2015 - 2017

Master of Science in Computer Science and Engineering

Cumulative GPA: 4.14/4.5

Lunghwa University of Science and Technology, Taiwan

2014 - 2014

Academic Exchange Students in Electronic Engineering

Cumulative GPA: 4.4/4.5

Shanghai Second Polytechnic University, China

2011 - 2015

Bachelor of Engineering in Computer Science and Technology

Cumulative GPA: 3.21/5.0

Research Experiences

Software Engineering Lab

HYU, Korea

Detecting Security Smells in Android Applications

Current

Detecting Conflicts of Access Control based on Machine Learning	2019 – <i>present</i>
Verified Plagiarism among Two Programs	2018 - 2019
Detected Conflicts of Access Control for IoT Smart Environment	2016 - 2019
Verified the Anomalies of Multi-threading Program	2016 – 2018
Developed a Program for Graphic Modification	2016 - 2017
Detected Concurrency Anomalies in Mobile Apps (Thesis)	2015 - 2017
Undergraduate Innovation Lab	SSPU, China
Vehicle Gate Barrier System for Intelligence Community	2013 - 2014
Developed a Program for Algorithmic Trading in Stock Markets	2013 – 2014

Awards & Honors

Chinese Government Scholarship	China Scholarship Council, 2017-2020
Hanyang University Scholarship for Engineering Students	HYU, 2015-2019
Outstanding Graduate Awards	SSPU, 2015
Outstanding Student Awards (Top 5%)	SSPU, 2014
3rd Prize of 2014 Taiwan Open Hardware Application Innovation Contest	KSU, 2014
1st Prize of the 1st Taiwan Innovation Contest	Taoyuan City, 2014
2nd Prize of Scholarship, <i>consecutive</i>	SSPU, 2012-2015
3rd Prize of 3th “Lan Qiao Cup” Programming Contest	MIITC, 2013

Publications

1. Xin Chen, **Zhiqiang Wu** and Scott Uk-Jin Lee, Duplicate Code Detection Based on Geometric Center for IoT Application, in *Proc. of International Conference on Information System and Convergence Applications*, 2020
2. **Zhiqiang Wu**, Xin Chen and Scott Uk-Jin Lee, Permission Smells Detection for IoT Applications on Android Platform, in *Proc. of Korea Software Congress*, 2019
3. Xin Chen, **Zhiqiang Wu** and Scott Uk-Jin Lee, Web Attack Detection Based on ResNet and RNN, in *Proc. of International Conference on Computational Sciences and Technologies*, Jamshoro, Pakistan, 2019

4. **Zhiqiang Wu**, Xin Chen and Scott Uk-Jin Lee, Identifying Latent Android Malware from Application's Description using LSTM, in *Proc. of 6th International Conference on Information, System and Convergence Applications*, Bangkok, Thailand, 2019, pp. 40-42
 5. **Zhiqiang Wu**, Xin Chen and Scott Uk-Jin Lee, Permissions based Automatic Android Malware Repair using Long Short-Term Memory, in *Proc. of Korean Society of Computer Information Conference*, South Korea, 2019, pp. 387-388 (**Best Paper**)
 6. **Zhiqiang Wu**, Asad Abbas, Xin Chen and Scott Uk-Jin Lee, Classification of Concurrent Anomalies for IoT Software based Support Vector Machine, *Journal of Theatrical and Applied Information Technology*, vol. 96, no. 3, 2018, pp. 832-842
 7. Xin Chen, **Zhiqiang Wu** and Scott Uk-Jin Lee, Testing and Evaluation of Free/Open Source Web Vulnerability Scanners for IoT Web Applications, in *Proc. Of International Workshop on Convergence Information Technology*, Busasn, Korea, 2017
 8. **Zhiqiang Wu**, Asad Abbas and Scott Uk-Jin Lee, Multiple Concurrency Anomalies Classification for Mobile Applications using Support Vector Machine, in *Proc. of International Conference on Computing Convergence and Applications*, Saipan, U.S.A, 2017 (**Best Paper**)
 9. Asad Abbas, Isma Farah Siddiqui, **Zhiqiang Wu**, Mohsin Javaid Siddiqui and Scott Uk-Jin Lee, Contextual Variability Management for Multi-Software Product Line, in *Proc. of International Conference on Computing Convergence and Applications*, Saipan, U.S.A, 2017
 10. **Zhiqiang Wu** and Scott Uk-Jin Lee, The Application of Banker's Algorithm in Order Scheduling Management for Deadlock Avoidance, in *Proc. of 2016 Korea Computer Comprehensive Congress*, Jun. 2016, pp.660-662
 11. Asad Abbas, **Zhiqiang Wu**, Isma Farah Siddiqui and Scott Uk-Jin Lee, Challenges of Multi-Objective Optimization in Feature Model of Software Product Line, in *Proc. of 3rd International Conference on Information, System and Convergence Applications*, 2016, pp.15-17
 12. Asad Abbas, **Zhiqiang Wu**, Isma Farah Siddiqui and Scott Uk-Jin Lee, An Approach for Optimized Feature Selection in Software Product Line using Union-Find and Genetic Algorithms, *Indian Journal of Science and Technology*, vol.9, pp.1-9, May 2016
 13. Asad Abbas, **Zhiqiang Wu**, Isma Farah Siddiqui and Scott Uk-Jin Lee, Optimized Feature selection with Crosscutting Concerns in Software Product Line Feature Model, in *Proc. of 2nd International Conference on Information and Convergence Technology for Smart Society*, 2016, pp.9-11
 14. **Zhiqiang Wu**, Seonwoong Kim, Abdul Rahim Mohamed Ariffin and Scott Uk-Jin Lee, An Effect Attendance Management System Based on Browser/Server Technique, in *Proc. of 18nd Korea Computer Congress*, Dec. 2015, pp.505-507
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Practical Experiences

China Life Insurance Co. Ltd.

Summer, 2014

----- Intern at Division of Application

My responsibility was deploying the new application to the server and assist colleagues in the testing software environment.

ACM Club

2011 - 2015

----- Organizer

The major responsibilities were to organize the training weekly and assist coach in teaching junior members on algorithm programming.

Academic Activities

IEEE Graduate Student Member

2017 - Present