

Mr. Tanapat Ruengsatra

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Education

- 2014 – Present Master of Engineering in Computer Engineering, Chulalongkorn University, Bangkok, Thailand
2010 – 2014 Bachelor of Engineering in Computer Engineering, Chulalongkorn University, Bangkok, Thailand (GPA: 3.75 on 4.00 scale, Summa Cum Laude)

Research Interests

- Mobile Ad-hoc Network
- Network Security
- Data Mining for Social Network Analysis
- Software Defined Network (SDN)

Languages

- Thai: Native Speaker
- English: Fluent
- Japanese: Basic Communication Skills

Industrial Experience

- Selected to participate in EBA internship program at Weather News, Japan in 2016. The assigned project is to develop Report Input (R/I) System based on web-application.

Research Experience

- Developed a hybrid network between MANET and the Internet for disaster recovery system. The system allows user to communicate between MANET and the Internet with a reliable broadcasting protocol which provides fast data transmission without compromising battery life
- Developed an authentication approach for disaster recovery system. Combining advantages of data dissemination protocol and chain of trust, the authentication approach provides sufficient trusted level without control overhead
- Developed a hybrid communication approach for disaster recovery system. Combining P2P based approach and infrastructure based approach, the hybrid approach can provide flexibility without compromising the reliability of network
- Completed summer internship at the University of North Texas in 2013. The research was Localization on Twitter which predicts location of users or events. Using information from events and friend lists, locations of users can be predicted even though they do not provide location information

Computer Skills

- Operating Systems: Windows, UNIX/Linux, OS X, Android, iOS
- Computer Languages: JAVA, C, C++ ,SQL, C#, AutoIT3, Verilog, Objective-C, Prolog
- Web Development: HTML5 & CSS, PHP, JavaScript, Ruby, Python
- Libraries/APIs: OpenCV, Android SDK, jQuery, Angular JS, Twitter API, Google API, Simple DirectMedia Layer (SDL), iOS SDK
- Development Tools: Github, Eclipse, Microsoft Visual Studio, Xcode, Microsoft SQL Server, Oracle Database, SQL Server Data Quality Services, MySQL, SWI-Prolog
- Network Technologies: TCP/IP, MANET, SDN, Routing Protocol, Network Simulator(NS-3)
- Security Technologies: Asymmetric / Symmetric Cryptography, Authentication Protocol

Publications

- A Hybrid Communication Approach for Disaster Recovery System, 16th Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD), 2015.
- ETC: Effective Trusted Communication with Two-mode Authentication for Disaster Recovery, 10th International Conference on Information Assurance and Security, pp. 12-17, 2014.
- Disaster Recovery System with Hybrid Network, The 2014 IEEE Thailand Student Conference on Senior Capstone Project, pp. 5-8, 2014.

Awards

2014	Final round of Thailand Code Jom Competition 2014
2013	Certificate in recognition of outstanding academic achievement during the academic year of 2011 in the bachelor of Engineering in Computer Engineering
	3 rd place of Thailand ICT Awards 2013
	Honorable mention award of National Software Contest 2013
	Community service award in leadership and volunteerism, Chulalongkorn University
	Outstanding student award in national/international competition, Chulalongkorn University
2012	Certificate in recognition of excellent academic achievement during the academic year of 2010 in the bachelor of Engineering in Computer Engineering
	Thailand national round of ACM-ICPC Programming Contest 2012
	Honorable mention award of Microsoft Application Training
2011	Thailand national round of ACM-ICPC Programming Contest 2011
2010	Silver medal award of the 7 th Princess Sirindhorn's Cup Mathematics Competition
2009	2 nd place of the central region of Thailand Mathematics Club Contest
	Bronze medal award of the 6 th Princess Sirindhorn's Cup Mathematics Competition
	Silver medal award of the 5 th Thailand Chemistry Olympiad Contest
	Highest score of the central region award from the 5 th Thailand Chemistry Olympiad Contest
2008	Bronze medal award of the 5 th Thailand Mathematics Olympiad Contest
	3 rd place of Bangkok Suvarnabhumi College Mathematics Contest

Relevant Experience

6/2015 – 7/2015	Developed registration system for Chulalongkorn University English Club
11/2013 – 7/2014	Designed disaster recovery application for Android. The application consists of map, compass, and messenger which allow users to receive helps.
2/2014 – 6/2014	Developed account and fund management system for a small business which reduces complexity on calculation process and also provides appropriate summarization. (Web-based application)
4/2014 – 5/2014	Developed web application for drugstore management system
8/2013 – 10/2013	Designed data warehousing and business intelligence system supporting room rental business
8/2013 – 10/2013	Designed "Social Network on the Road" which is social network for the commuter. This website allows users to report and receive information about transportation at the specific area.
5/2013 – 9/2013	Developed "Dancing Game" with Kinect. This project was exhibited in NITAD16, engineering academic exhibition of Chulalongkorn University
5/2013 – 9/2013	Developed web application for outpatient department (OPD) system
7/2012 – 10/2012	Developed 3-Way Controlled Mouse System for Quadriplegics. This system allows the quadriplegic to control computer by using eyes, head and voice

Extracurricular Activities

2015	Staff of Let's Chat activity, English conversation activity of Chulalongkorn University
2014	Organizer of ConneK 5 th , computer engineering CU-KU traditional activity
2013	Exhibitor of NITAD16, engineering academic exhibition of Chulalongkorn University
2012	Leader of the mathematics team of the 11 th FunFueng Camp, academic training camp for high school students in countryside
	Staff of the 9 th BitByte camp, computer training camp for people in countryside
2011	Organizer and teacher of FE Camp, admission preparation camp for high school students
2010	Leader of the material team of Engineering Krathong Festival, the biggest yearly festival