Visatouch Deeying

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Educations

Chulalongkorn University – Master of Engineering in Computer Engineering   **2017 - present**
- Currently attending, expected to graduate around August 2019.
- Research about communication protocol for vehicular platooning with IEEE 802.11p and experiment with vehicular edge computing protocol with platooning scenario.
- Used ns-3 and OMNeT++ for network simulation experiment.

Chulalongkorn University – Bachelor of Engineering in Computer Engineering   **2013 - 2017**
- GPAX: 3.60 (1st Class Honors)

Work experiences

Faculty of Engineering, Chulalongkorn University – Teaching Assistant   **2017 - 2019**
- Involved in Computer System Architectures class and Computer Networks class.
- Prepare a hand-on laboratory and grade assignments.

Kinoshita's Laboratory, Tokyo University of Technology – Research Intern   **2016**
- Helped with a research about "Smartphone Authentication by Trace of Touch Operation".
- Created an Android application to collect data of touch details for an experiment.

Skills

Programming Languages
- C/C++: 10 Years Experience
- Java: 7 Years Experience
- Python: 5 Years Experience
- Other programming languages: PHP, JavaScript and SQL

Other Software Development/Computer Skills
- Familiar with Linux system
- Familiar with Git version control system
- Have experience with Flask Microframework for Python
- Have experience in network simulation with ns-3 or OMNeT++ plus Veins/Plexe Framework
- Have experience with socket programming

Language Skills
- Thai (native)
- English (intermediate, TOEFL iBT – 89 points)
- Japanese (beginner, JLPT N3 – passed)

Awards

Gold Medallist, The 7th Thailand Olympiad in Informatics   2011

- Achieve a gold medal in The 7th Thailand Olympiad in Informatics. A national-level IOI-style programming competition for high school students.

Silver Medallist, The 6th Thailand Olympiad in Informatics   2010

- Achieve a silver medal in The 6th Thailand Olympiad in Informatics. A national-level IOI-style programming competition for high school students.

Publications

A study of vehicular desynchronization for platooning application   2017

- Proceeding of 2017 17th IEEE International Conference on Communication Technology (ICCT).
- Propose to use a vehicular desynchronization TDMA-based protocol over off-the-shelf IEEE 802.11p for platooning application.
- Result shown that this protocol could support high-frequency beaconing up to 16 vehicles at 100Hz for platooning application.
- Available on IEEE Xplore [https://ieeexplore.ieee.org/document/8359878/]

Projects

Communication system and algorithm for automatic vehicle platooning   2016 - 2019

- Bachelor's degree graduation project.
- Developed and demonstrate a communication protocol for automatic vehicle platooning.
- Used wireless safety unit prototype lent by Denso for communication over IEEE 802.11p. Wireless safety unit is running Linux and have low-level API for interacting with IEEE 802.11p interface.
- Used Anki OVERDRIVE a Bluetooth controlled toy car to demonstrate vehicular platooning communication.
- As a by-product, an API for controlling Anki OVERDRIVE is created and published at https://github.com/xerodotc/overdrive-python.

CU Pile   2016 - 2017

- An application which help civil engineers in pile driving operations.
- A project collaborated with Geotechnical Research Unit, Chulalongkorn University.
- In the team, I'm focused on backend API (Flask) and database storage (Redis).

teacup   2016 - 2019

- A social network which focused on articles and discussions.
- In the team, I'm mostly focused on backend API (Flask) and deployment using Docker Swarm.
- Live at https://teacupreader.com.

Smart Device Controller (prototype)   2015

- A project for hardware synthesis laboratory course in my university.
- Use an Arduino and smartphone to control IR-controlled device. Written in C for Arduino side.
- Source code for Arduino program is at https://satou.ch/sdc-src.
- Demonstration video is at https://satou.ch/sdc-vid (in Thai language with English closed-caption).

Project Pon   2014

- A project for programming methodology class in my university.
- A combination between pong and breakout game with networking feature written in Java.
- GitHub repository for this project is at https://github.com/xerodotc/project-pon.

Extracurricular activities

ACM-ICPC Contests, Chulalongkorn University site – System Division (head) staff   2014 – 2016

- An international programming competition for university students.
- Operate and maintain contest system for all ACM-ICPC competitions that being held at Chulalongkorn University between 2014 to 2016.
- Automate an installation of computer used for competition which reduce installation time from several days to a few hours.