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Work experiences

KASIKORN Labs Co., Ltd. – Innovation Engineer

2019 - present

- Part of KASIKORN Business-Technology Group (KBTG).
- Mainly work on back end of various software projects within the company.

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.

Educations

Chulalongkorn University – Master of Engineering in Computer Engineering

2017 - 2019

- Thesis Title: Desynchronization Communication System for Automatic Vehicle Platooning
- Thesis Evaluation: Good

Chulalongkorn University – Bachelor of Engineering in Computer Engineering

2013 - 2017

- GPAX: 3.60 (1st Class Honors)

Skills

Programming Languages

- C/C++: 10 years' experience
- Python: 5 years' experience
- Go: 1 years' experience
- Other programming languages: Java, PHP, JavaScript and whatever (I'm willing to learn new language).

Other Software Development/Computer Skills

- Have experience with Flask framework for Python and Gin framework for Go.
- Have experience with both SQL database and NoSQL database (MongoDB and Redis).
- Have experience in Bash shell scripting.

Languages

- 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 and master's degree thesis.
- 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).

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.

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.