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# DANUPAT KHAMNUANSIN
**jrkns.github.io**

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## EDUCATION

- **Chulalongkorn University**, Bangkok, Thailand     2014 – present
  Bachelor of Engineering, computer engineering     GPA: 3.29

## INTERESTS

- Machine learning, Natural language processing (NLP), Chatbot applications
- Full-Stack web and software development
- Machine learning tools: Tensorflow, Keras, Gensim
- Python, Java, C++, Javascript
- CSS, HTML, Django, Node.js, ReactJS, Jade/Pug, Bootstrap
- MySQL, MongoDB, Github, Docker

## TECHNICAL EXPERIENCE

### Internship

- **KLABS, KASIKORN Business - Technology Group** (June – July 2017)
  - Developed a long-short term memory (LSTM) for extracting key information and assigning labels from Thai texts for various applications (e.g. social listening, chatbot)
  - Implemented the prototype using Python and Tensorflow library

### Projects

- **CUnlp: Thai Natural Languages Processing Library (Senior project)** (2017 – ongoing)
  - Implementing a Tensorflow-based python library for Thai natural language processing including basic functions (e.g. word/sentence tokenize, sentiment analysis, word similarity etc.)
  - Implementing and training various Thai natural language processing models for public usages
- **National Software Competition 2018: Thai Plagiarism Detection** (2017 – ongoing)
  - Developing tools to detect plagiarism on Thai documents by using Suffix-Array, implementing by Python
- **Chatbot Applications** (2017 – ongoing)
  - Developing chatbot applications in various domains (e.g. information retrieval assistant, daily promotion reporter, board game moderator)
  - Implementing chatbot prototypes by using Line messaging API and Python web server runing by Flask frameworks
- **Matchmaker Web Application** (2017 – ongoing)
  - Designing web application to help matching between tutors and students by using the concepts of MVC architectural pattern, user-centered and mobile friendly design
  - Implementing web application by ReactJS and MongoDB
  - Making reports including problem statement, design and requirements specification
- **Student Registrar Web Application** (2016)
  - Designed web application for student registration including UX/UI design, authentication system, database query, database ER/schema diagram, database normalization and security considerations
  - Developed web application by using Node.js and MySQL
- **System Analysis and Software Design: Chula Course Table** (2016)
  - Analyzed existing real world problems to create analysis and design documents for a solution application including proposal, analysis documents, functional and structural modeling

## LANGUAGES

- Thai language: Native
- English language: Conversational level