

Chawisara Uswachoke

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EDUCATION

Cornell University, USA

Aug 2016 – May 2017

- Master of Professional Studies (MPS) in Information Science
- Cumulative GPA: 3.59 (out of 4.0)

Chulalongkorn University, Thailand

Aug 2012 – June 2016

- Bachelor of Engineering in Information and Communication Engineering at International School of Engineering (ISE)
 - Cumulative GPA: 3.49 (out of 4.0); Graduated with Second Class Honors; Received Excellent Academic Achievement (2015)
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EMPLOYMENT EXPERIENCE

IBM Solutions Delivery, Intern, Thailand

June 2015 – July 2015

- Interned at Application Management Services division; assigned to True Corporation's Enterprise Marketing Platform project
- **Software tester:** tested functionalities, manipulated the database using **SQL**, reported defects and daily test summaries
- Selected as **project representative** of all the interns to give presentation at the end of the internship period

CAT Telecom Public Company Limited, Intern, Thailand

May 2014 – June 2014

- Interned at CAT's division of Internet Service Center, Data Communication Department
- Managed router configuration and peering services with international companies

Jamsai Publishing, Author, Thailand

Oct 2009 – Present

- Writes novels for Jamsai Publishing in the Jamsai Love Series category; pen name: *belza09*
 - Placed among the top 3 in Jamsai & Dek-D National Teen Writer Contest; 5 books published up to date
 - Attends national book fairs for book signing events; invited to road-shows as a guest speaker
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RELEVANT ACADEMIC PROJECTS

Robotic Process Automation, Digital Technology Immersion project

Jan 2017 – May 2017

- Industry-based project collaborated with Johnson MBA students sponsored by **Brandify**
- Explored ways to automate time-intensive manual processes through strategic solutions and Python automation scripts

Predicting Bad Loans from LendingTree, Advanced Data Analytics competition

May 2017

- Created a logistic regression model to help predict bad loans, based on given data with 89 variables, using **XLMiner**
- Ranked 8th place (out of 37) on Kaggle with 95.46% accuracy; 2nd best logistic regression model in class

Property Price Prediction, Designing Data Products project

Mar 2017 – Apr 2017

- Constructed a website that predicts rental and selling prices of user's property using multiple linear regression and k-NN models
- Embedded **Google Maps API** for users to provide address which will then be converted to (longitude, latitude) coordinates
- Used HTML, CSS, Javascript with the extension of **ExcelPlus/js-xlsx** to read Excel files and use for price prediction
- Selected by professor to write and publish an article about the project on **Forbes**

Extinct & Endangered Languages, Visual Analytics for Web project

Feb 2017 – March 2017

- Constructed data visualizations on "Extinct & Endangered Languages" using HTML, CSS, and Javascript (D3)
- Selected by **Towards Data Science**, an online journal on Medium, to publish visualization on their website

ColorPhantom, Human Perception project

Nov 2016 – Dec 2016

- Designed and implemented a web application to experiment on simultaneous color contrast using **Bootstrap** framework
- Users had to select the color (of the 4 choices in each question) that is the same as the pointed pixel in the provided image
- Deployed website on **Firebase** and created a **Google Apps Script** to connect website to Google Sheets to collect data

Question Answering Program, Natural Language Processing project

Oct 2016 – Nov 2016

- Implemented a QA program based on **IBM Watson**'s architecture using **Python**
- Generated answer candidates through NER and ranked each answer with several scores (cosine similarities of question and various windows around the answer, compatibility of question and answer types, relation data extracted from **DBpedia**)
- Used **Stanford NER Tagger** for question and passage processing, **Scikit-learn** extension for tf-idf scores in finding cosine similarities, and **SPARQL** to query through DBpedia

Random Sentence Generator & Spell Checker, Natural Language Processing project

Aug 2016 – Sep 2016

- Used **Java** to create **language models** (Naïve Bayes); trained and tested them on given documents
- Implemented a random sentence generator and spell checker using own language models (unigram, bigram, trigram)
- Spell checker yielded an accuracy of 89.88%; project ranked 10th place (out of 99) in class on Kaggle

Inventory Management and Logistics Optimization, Senior project at Chulalongkorn University

Nov 2015 – May 2016

- Created a web-based application that manages inventory level of warehouses and calculates optimal product arrangements when loaded into vehicle; involved **PHP**, **SQL**, and optimization application; implemented the **Yii2** framework
 - Done in collaboration with a Thai construction materials manufacturer called 'Daii Group Public Company Limited'
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RELEVANT SKILLS AND INTERESTS

Languages: Thai (fluent), English (fluent), French (basic), Mandarin (basic), Japanese (basic)

Programming: Java, Python, PHP, HTML, CSS, Javascript, JQuery, Bootstrap, d3, JSON, SQL, R, C#, C++

Tools: Eclipse, PyCharm, NetBeans, Visual Studio, XAMPP, MySQL, Sublime Text, GitHub, R Studio, VirtualBox, JustInMind, Balsamiq, IBM Campaign, DBEaver, HP Quality Center, Meshmixer

EXTRACURRICULAR ACTIVITIES

Creative Sprint, Contestant

Nov 2016

- Designed a restaurant business model under the topic 'Sustainability', created prototypes and presented to judges from Cornell University and Google

TOEFL Box, Co-Founder

Aug 2014 – Dec 2014

- Established campaigns to help engineering students in Chulalongkorn University improve their English skills by providing SAT and TOEFL questions for them to answer each week