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# KITTISAK TIPAKORNROJANAKIT

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## EDUCATION

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<b>Uxbridge, London, UK</b>	<b>Brunel University London</b>	<b>Sep 2018 – Jul 2021</b>
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Bachelor of Science (Honours) in Computer Science (Software Engineering)

### Academic Achievements:

- Graduated with First-class Honours (GPA: 3.6/4)
- Bachelor's Thesis: Retinal image analysis using Convolutional Neural Networks (Grade: A\*)
- Nominated and Presented at Made-in-Brunel (2019) (A Java File Transfer Hub with Google Firebase)
- Notable Modules: Artificial Intelligence, Software Engineering

## WORK EXPERIENCE

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<b>Web Development Intern</b>	<b>The Gang Technology Co., Ltd. (TH)</b>	<b>Aug 2020 – Nov 2020</b>
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- 01 Developed a backend of a web application with RESTful API focused on utilizing **Facebook open Graph API**.
- Created using **Django** and **Django REST framework** connected with **PostgreSQL** database.
- Assisted Data Team in **Data Collection** and **Data Mining** using **FB Graph API** and our **REST API**.
- Experienced agile software development (SCRUM) with **Atlassian JIRA** project management tool.
- 02 Developed a frontend of staff web portal using **Vue.js** with a backend using **Node.js**.
- Improved QOL in development by integrating a backend Headless CMS into frontend framework using **Strapi**.

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<b>R&amp;D Student Intern</b>	<b>Panjawattana Plastic PLC (TH)</b>	<b>June 2017 – July 2017</b>
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- Assisted R&D team in the development of a plastic moulding injector's head prototype to increase efficiency in the manufacturing process of plastic petrol can.
- Learned how to use **MATLAB** and **Simulink**.
- Simulated heat transfer of the prototype using MATLAB application.

## PERSONAL PROJECTS

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- **Bird Repel (2021)**. Computer Vision for bird detection and repel. A small project made using **PyTorch** and **OpenCV** that leverages webcam for real-time bird detection and play a sound when bird is detected. The model used in this project is YOLOv5 due to its performance improvement in real-time object detection.
  - **Bachelor's Thesis (2020)**. Semantic Segmentation of Retinal image made using **TensorFlow** DL framework that focuses on automating segmentation of retinal blood vessels and optic disc in the retinal image.

## AWARDS

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- **Duke of Edinburgh International Award (2015-2017)**: Internationally recognized award with over 130 participating countries. The programme focuses on physical recreation, skill building and service to the community. Achieved Bronze, Silver, and near-completed Gold Award.
  - **Modern Foreign Language – Mandarin Gold Certificate (2014)**: Mandarin Competition against international non-Chinese-national students. The competition tested on all aspects in language proficiency.

## SKILLS

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- Python, TensorFlow, PyTorch, Java (OOP), JavaScript, HTML/CSS, Vue.js, Node.js
  - Test Driven Development, SQL, Git, Agile Methodology, Data Structures, Algorithms

## EXTRA CURRICULAR

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<b>Dance Coordinator, Events Team</b>	<b>Brunel K-pop Society (BKS)</b>	<b>Oct 2018 – July 2020</b>
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- BKS is a society aims to connect and build a community of K-pop fans and shares activities together.
- Responsible for learning and teaching dances to dancing members.
- Responsible for planning and organising the performance in large key event
- Responsible for communicating and working with event managers for smooth experience during the events

