RAPHASSIT SUWIWATCHAI

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PROFILE

Beam (Raphassit Suwiwatchai) is a Thai data scientist and design engineer currently enrolled at Imperial College London School of Design Engineering. Passionate and experienced in data analytics and machine learning applications.

EDUCATION

IMPERIAL COLLEGE LONDON
September 2021 – June 2025
MEng. Design Engineering

On-tracked to achieving the First Class Honour [70.25] in Integrated Masters of Engineering Design Engineering in 2025.

WORK EXPERIENCES

Data Science & AI Engineer Internship
SIAM CEMENT GROUP, Saraburi
July 2023 - Present

> Developed Solar Power Prediction Machine Learning Model, improving factory load-shifting efficiency by 3.6% - projecting to **save 12.8 million baht** in electricity costs.

> Developed a Machinery 'Remaining Useful Life' validation interface, visualising how our predictive maintenance AI calculates its predictions. The platform said system is a part of has helped SCG to **reduce maintenance costs by 22 million baht** in the first 2 fiscal quarter, projecting to reach 100 million baht saved by Q3 2024.

> Worked with the manufacturing consulting team in identifying signs of failure in cement kiln and cyclone separator. Also worked on performance tracking of cement extrusion machines.

Chief Finance Officer
SAMAGGI SAMAGOM (under royal patronage), London
July 2023 - Present

> Developed and launched the internal online financial services platform, allowing staff to request, submit, and review their organisation's expenses - facilitating the ease of reviewing and auditing expenses.

> Leading the finance department in managing the organisation's finances while maintaining constant flow of communication between the Thai Embassy and sponsors.

Web Development Coordinator
SAMAGGI SAMAGOM (under royal patronage), London
August 2022 – July 2023

> Led a unit of developers in building and maintaining the organisation's website and database. The development led to reduced idle costs and improvements in service reliability.

> Worked on the development of Samaggi Fest concert ticketing system, the largest Thai music concert in the UK, in partnership with Ticketmaster.

> Worked on developing a job recruitment system for the Samaggi Career Fair.

Undergraduate Teaching Assistant / Academic Mentor
IMPERIAL COLLEGE LONDON, London
July 2022 – June 2023

> Assist teaching faculty members in tutoring students in the Engineering stream as part of the Imperial GSS programme

> An undergraduate teaching assistant for first years computing modules

SKILLS

Softwares:
Adobe Photoshop, Adobe Premiere Pro, Adobe Illustrator, Adobe InDesign, ANSYS, FIGMA, Fusion360, Solidworks, Granta, Rhinoceros5-6, Lumion, KeyShot 9

Programming Language/ Frameworks:
Arduino, AWS, C++, CSS, HTML, Javascript, LaTeX, MATLAB, Node.js , Power Automate, Python, React.js, SQL, Swift

Languages:
English (Native), Thai (Native), Mandarin (beginner), German (beginner)

ACHIEVEMENTS

> Competed in P&G Sustainable Packaging Hackthon: introducing an innovative re-usable packaging design that is more environmentally friendly than the existing packagings on the market

> Winning 'Best Trade Fair' award in JA competition: launching a compact B2B GPS tracker for goods and vehicles.

> Harrow School Gold Academic Scholarship

> United Kingdom Mathematical Trust (Silver)

PROJECTS

Data Science 2023
GRADE: 87 [A]
Developed multiple machine learning algorithms to determine the relationship between personal health information and heart disease.

Industrial Design Engineering 2023
GRADE: 70.15 [A]
Designed and manufactured Tesco's 'Scan-as-you-shop' device for the visually impaired, reducing friction and pain points for the visually impaired when groceries shopping.

Computing 1 & 2 2022
GRADE: 87.53 & 77.03 [A, A]
An explorative coursework on Python, Matlab , and website development using Javascript, CSS, HTML, and related libraries & frameworks

Personal Interests

> Professional actor: performed in numerous stage musicals, commercials, and TV series (Si-Pandin the Musical, Laddaland (stage play), Sri Ayodhaya, etc.)

> Imperial College Kendo team member - Competed in inter-university competition in 2023