

Arun Wongprommoon

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Education

Massachusetts Institute of Technology (MIT)

Cambridge, MA

Candidate for Bachelor of Science in Computer Science and Engineering

June 2023

Relevant Coursework: Software Construction, Signal Processing, Machine Learning, Embedded Systems, Digital and Computational Photography, Design and Analysis of Algorithms, Phonology, Syntax, Semantics

Phillips Exeter Academy (PEA)

Exeter, NH

High School Diploma: Post-Graduate Year

June 2019

GPA 10.60/11.00, Cum Laude

Mahidol Wittayanusorn School (MWITS)

Nakhon Pathom, Thailand

High School Diploma

March 2018

GPA 4.00/4.00, Valedictorian

Experience

Undergraduate Research Opportunities Program, MIT

Virtual

Undergraduate Researcher, Subproject Leader in a team of 10

May – Aug 2020

- Collaborated on an AI research project led by Prof. Max Tegmark to make *Improve the News*, a news aggregator application with automatic news topic classification and bias detection
- Built Android instance of the project individually from scratch with Java and XML
- Headed the topic classification model subproject, combining GPT2, Doc2Vec, TF-IDF, and BERT models
- Assembled a publicly available Python package *mit-news-classify* that does topic classification with >80% precision, based on the *New York Times* Annotated Corpus with 593 tags

MIT Web Development Class and Competition

Cambridge, MA

Competition Participant in a team of 3

January 2020

- Developed *JourNext*, a compact platform to synchronously plan, edit, and share journeys, complete with schedule and map viewing, attraction finding and route searching
- Programmed parts of the front end using React.js, several map APIs, and the back end using MongoDB

MWITS Science Project Class

Nakhon Pathom, Thailand

Project Leader in a team of 3

May 2016 – March 2017

- Devised *Ambient Detector*, a mobile application that notifies deaf and hard of hearing people about sounds of significance around them with inspiration from a few research papers
- Engineered the Android application using Java and XML, incorporating FFT and PSNR algorithms
- Received third place in the high school category at the National Software Competition; Presented at International Science Youth Forum in Singapore, and i-Create 2017 in Kobe, Japan

Skills and Interests

Software: Java + Android Development, Python, Keras, Pytorch, C/C++, HTML, CSS, JavaScript

Languages: Native Thai and English speaker, basic knowledge in French and Mandarin

Interests: Linguistics, Photography, 3D Animation, Urban Planning, Music, Squash

Achievements and Activities

Achievements: Silver medal in International Olympiad in Informatics 2017, second round qualifier in Google Code Jam 2020, participant in 2018-2019 USACO Platinum Division

Activities: Associate Production Editor in *The Tech*, member of MIT International Student Association