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*
GPA 5.00/5.00
Coursework: NLP, Advances in Computer Vision, Software Construction, Signal Processing, ML, Embedded Systems, Digital and Computational Photography, Algorithms II, Phonology, Syntax, Semantics, Music Tech

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, Git
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: Production Editor in *The Tech,* member of MIT International Student Association, MIT UPOP