

Arun Wongprommoon

Pursuing a Bachelor's Degree in Computer Science and Engineering

Bangkok, Thailand - Cambridge, MA

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github.com/rayaburong

rayaburong.github.io

Education

Massachusetts Institute of Technology	2019 – 2023	GPA N/A
Phillips Exeter Academy	2018 – 2019	GPA 10.60/11.00 (Cum Laude)
Mahidol Wittayanusorn School (MWITS)	2015 – 2018	GPA 4.00/4.00 (Valedictorian)

Current Courses

6.031 Software Construction	6.815 Digital & Computational Photography	6.003 Signal Processing
18.600 Probability	24.901 Phonology	24.902 Syntax

Relevant Past Courses 6.036 Machine Learning, web.lab, 6.046 Analysis of Algorithms, 6.08 Embedded Systems

Skills Java/Android development, Python/Keras/Pytorch, HTML/CSS/JavaScript/React.js, C/C++






Languages Thai (native), English (native), French (elementary), Mandarin (basic)

Interests Linguistics, Photography, 3D Modelling, Urban Planning, Visual Arts and Design, Music Theory

Research and Work Experience

Improve the News: Detecting News Bias using Machine Learning	Summer 2020 UROP
Made state-of-the-art NLP models to classify news topics, developed the project's Android application and scraping tools	
Maze Made Easy: Better and easier measures of incremental processing difficulty	Fall 2019 – Spring 2020 UROP
Helped add word matching features to the project, refactored code and added installation documentation	
MIT 6.009 Fundamentals of Programming Lab Assistant	Spring 2020 Work

Projects

 Improve the News Android application, individual	Android
presents news from improvethenews.org, allows users to customize feed with bias sliders and give article ratings	
 JourNext (for web.lab), team of 3	HTML/CSS, React.js, MongoDB
full-stack website for journey planning and scheduling, with personal profiles, real-time saving and sharing	
 Phrase2Vec, team of 3	Pytorch, NLP
experimentation with modified word2vec and seq2seq on low resource languages like Chinese and Thai	
 MWITS Chemical Database App, team of 3	Android, PHP, SQL
presents and keeps track of chemical stock, borrowing and returning requests from users	
 Ambient Detector, leader in team of 3	Android, sound processing
notifies users of sounds matching local database using FFT PSNR algorithm from a research paper	

Academic Achievements

International Olympiad in Informatics 2017	Silver medal
Google Code Jam 2020 season	Round 2 qualifier
USA Computer Olympiad 2019 season	Platinum level
American Mathematics Contest 12 2019	Distinguished Honor Roll
North American Computational Linguistics Olympiad 2019	Invitation Round qualifier

Clubs and Positions

<i>The Tech</i> (MIT's student-led newspaper club)	Associate Production Editor and photographer
Southeast Asian Service Leadership Network	MIT Chapter Member
ActLingual (MIT's translation for social impact club)	Thai Translator
Exeter Computing Club	2018 – 2019 Board Member and lecturer