

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

Cambridge Mobile Telematics (CMT)

Virtual / Cambridge, MA

Software Engineer Intern (Android SDK Squad)

Jun – Aug 2021

- Developed an Android sample application which demonstrates usage of the company's SDK code integration, including authentication, vehicle trip detection, completed trip details, and tag activation
- Learnt and applied Android development with Kotlin, modern Android development best practices as well as technical knowledge about observers, subscribers, and fragments
- Helped expand company's customer reach by complementing CMT's Java Android sample application, assisting insurance company engineers in developing their own applications with CMT SDK integration

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

Skills and Interests

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

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

Achievements and Activities

Achievements:

- Silver medal in International Olympiad in Informatics 2017 (finished 64th, 79th percentile)
- Round 2 finisher in Google Code Jam 2020 (2009th, 95th percentile) and 2021 (3020th, 92nd percentile)
- Participant in 2018-2019 USACO Platinum Division, highest division before training camp

Activities: Production Editor in *The Tech*; MIT International Student Association; MIT UPOP; MIT Splash 2019-2020