Arun Wongprommoon

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Education

Massachusetts Institute of Technology (MIT)

Candidate for M.Eng. in Computer Science	Sep 2023 – Jun 2024
B.Sc. in Computer Science and Linguistics: GPA 5.0/5.0	Sep 2019 – Jun 2023

- Relevant coursework: 6.172 Performance Engineering, 6.837 Computer Graphics, 6.7010 Digital Image Processing, 6.815 Digital and Computational Photography

Competitive Programming Achievements

International Olympiad in Informatics: Silver medalist (79th percentile)	2017
Google Code Jam: Round 2 finisher (95th percentile, 92nd percentile)	2020, 2021
Facebook Hacker Cup: Round 1 finisher (80th percentile, 93rd percentile)	2019, 2020
USACO: Platinum division	2019

Internship Experiences

Robinhood: Android engineer intern (Cash Area; Peer-to-Peer Team) — Summer 2023

- Extended Robinhood's peer-to-peer transaction product to support multi-user cash payment and request
- Strengthened overall product by migrating code, adding test units, pushing features and addressing bugs

Duolingo: Software engineer intern (Monetization Area; Super Packaging Team) — Summer 2022

- Added onboarding screens right after purchasing Super subscription on Android, and tweaked purchase flow
- Incorporated Firebase analytics to better target advertisements to free users who are either likely to spend or churn
- Increased company's bookings by $1,000 a day, found by running A/B test experiments and measuring metrics

Cambridge Mobile Telematics (CMT): Software engineer intern (Android SDK Squad) — Summer 2021

- Developed an Android app from scratch which demonstrates the usage of CMT's core SDK codebase and API calls
- Learnt Kotlin as well as technical concepts such as observers, subscribers, and fragments
- Improved company's customer reach and support, as the application serves as a fully functioning template

Undergraduate Research Experiences

Spoken Language Systems, MIT Undergraduate Research Opportunities Program — Spring 2023

- Examined MetaAI's unit-to-unit speech translation model without text representation that uses HuBERT and K-Means
- Constructed a multilingual translation model by concatenating vocabulary, increasing BLEU scores by a few points
- Researched various alternative state-of-the-art models, adapter training as well as finetuning frameworks

Improve the News, MIT Undergraduate Research Opportunities Program — Summer 2020, Spring 2021

- Collaborated with Max Tegmark to create an AI news aggregator which informs users of implicit bias in news articles
- Made an ensemble topic classification model combining GPT and BERT, achieving 80% precision on the *NYT* corpus

Ambient Detector — May 2016 – March 2017

- Made an Android app that recognizes and identifies sounds by recording, calculating the FFT and matching profiles
- Won third place in Thailand's National Software Contest for high school students, presented in assistive tech forums

Clubs, Societies and Extracurriculars

The Tech, MIT's Student Newspaper

- Co-publisher, Managing Editor and Business Manager	2023
- Production Editor	2021 – 2022
MIT IEEE Eta Kappa Nu Honor Society: Marketing Officer and Executive Board Member	2022 – 2023
MIT Undergraduate Practice Opportunities Program: Participant	Winter 2020

Skills / Interests

Skills	Data Structures, Algorithms, C/C++, Kotlin, Java, Python, UNIX, Web, Git, French, Thai
Interests	Photography, Video editing, 3D animation, Urban planning, Visual Arts, Design, Music, Squash, Bouldering