Arun Wongprommoon

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Education

Massachusetts Institute of Technology (MIT)   **Cambridge, MA**
Candidate for B.Sc. in Computer Science and Linguistics, GPA 5.00/5.00   *Sep 2019 – Jun 2023*
- Current Coursework: Software Studio, Performance Engineering, Computer Graphics, Music Processing
- Relevant Coursework: Natural Language Processing, Computer Vision, Software Construction, Signal Processing, Machine Learning, Embedded Systems, Digital and Computational Photography, Algorithms II

Work and Research Experience

Cambridge Mobile Telematics (CMT)   **Virtual / Cambridge, MA**
Software Engineer Intern (Android SDK Squad)   *June 2021 – 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 2020 – 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

Projects

HackMIT   **Cambridge, MA**
Hackathon Participant in a team of 4   *September 2021*
- Created TypeIt, a platform for language learners in a digital age to practice typing in over 100+ languages, with a keyboard assistant that adapts to each language's layout
- Programmed the front end using React.js, including the keyboard rendering and functionality, timer, as well as language selection

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 database using MongoDB

Teaching and Volunteer Experience

Lab Assistant for 6.08: Embedded Systems (Spring 2021)   Cambridge, MA
Lab Assistant for 6.009: Fundamentals of Programming (Spring 2020)   Cambridge, MA

Skills and Interests

Software: Java and Kotlin Android Development, Pytorch, C/C++, React.js, HTML/CSS, Keras, Python, Git
Interests: Linguistics, Photography, Teaching, 3D Animation, Urban Planning, Music, Squash

Achievements and Activities

Achievements:
- Silver medal in International Olympiad in Informatics 2017 (finished 62nd, 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