

# KINAN MARTIN

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## EDUCATION

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**Massachusetts Institute of Technology** **September 2019 – May 2024**  
Master of Engineering in Computer Science and Cognition GPA: 4.8 / 5.0  
Bachelor of Science in Computer Science and Cognition GPA: 4.9 / 5.0

## EXPERIENCE

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**Artificial Intelligence Researcher** **June 2024 – present**  
*Reazon Holdings* *Tokyo, Japan*

- Led team of four researchers and interns in development of NLP solutions for product integration
- Designed and developed full stack of React app for real-time transcription & annotation of bilingual meetings
- Refactored ASR model's voice activity detection logic to increase transcript accuracy by 21%; optimized LLM prompt structure to reduce output latency by 80%
- Released [ReazonSpeech-k2-v2](#), an open-source Japanese automatic speech recognition model that outperforms OpenAI's Whisper large-v3 with over 10x fewer parameters

**Artificial Intelligence Research Intern** **June 2023 – August 2023**  
*Foxconn* *Taipei, Taiwan*

- Spearheaded project using multimodal vision-language models and LLMs for a smart driving assistant
- Designed and implemented novel model architecture and dataset generation pipeline
- Jointly submitted US and Taiwanese patents for the above

**Student Researcher** **September 2022 – May 2024**  
*MIT Computational Psycholinguistics Lab* *Cambridge, MA*

- Completed master's thesis on the relationship between contextual predictability and phonetic reduction
- Designed and implemented novel probing paradigm for self-supervised spoken language models
- Used Facebook AI's *fairseq* to quantify how models incl. HuBERT exhibit human-like processing behavior
- Published [first-author paper](#) accepted to int'l spoken language processing conference [INTERSPEECH 2023](#)

**Teaching Assistant** **September 2022 – May 2024**  
*MIT (6.101 Fundamentals of Programming)* *Cambridge, MA*

- Taught 600+ students by helping solve/debug assignments and fostered good coding practices in weekly labs
- Led weekly staff meetings and taught 30+ fellow lab assistant staff best practices for helping students

**Student Research Intern** **June 2022 – August 2022**  
*University of Chile* *Santiago, Chile*

- Co-authored [paper](#) on training word embeddings for Spanish clinical use published in int'l journal *Frontiers*
- Implemented NLP models for int'l computational linguistics competition ([SMM4H 2022: SocialDISNER](#)): scored 2<sup>nd</sup> place on eval metric. Co-authored corresponding [paper](#) published by *ACL*.

## SELECTED PROJECTS

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**Arabic part of speech marking browser extension ([na7w](#))** **January 2024**

Created Chrome extension to mark parts of speech of Arabic text on webpages; deployed on GCP

**Problem solving with Large Language Models via context augmentation** **April 2023**

Devised and implemented a set of LLM context augmentation methods to improve performance at problem solving

**Speech to speech translation model** **May 2022**

Built novel speech to speech translation pipeline, wrote corresponding paper describing methodology

**Grapheme to phoneme RNN model** **May 2021**

Built Pytorch LSTM models to predict the pronunciation of novel words given their spellings for arbitrary languages

## SKILLS AND ACHIEVEMENTS

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**Foreign Languages** Japanese, French, Russian, Chinese, Arabic, Spanish; learning Korean, Vietnamese, Polish, and more

**Coding Languages** Python, JavaScript, TypeScript, HTML/CSS, \*nix/Bash, SQL, MATLAB, R, LaTeX

**Software & Tools** Git, React.js, AWS, GCP, Hugging Face, PyTorch, Tensorflow, Pandas, slurm, sklearn, NLTK, Stanza

- Passed the highest level of the international Japanese Language Proficiency Test (JLPT N1) in the 96<sup>th</sup> percentile (2017).
- Ron Brown Scholarship Scholar (2019-2023)
- 1<sup>st</sup> place in Russian Poetry Recitation, 2<sup>nd</sup> place in Speech Contest at New England Olympiada of Spoken Russian at Harvard University (2020).