Jirayu Burapacheep

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Stanford University, M.S. in Computer Science (AI Specialization)	2023 - 2025 (Expected)
 University of Wisconsin-Madison, B.S. in Computer Science and Data Science Relevant Coursework: Algorithms, Operating Systems, Database Systems, Optimization, Multivariable Calculus, Information Security, Big Data, Quantum Algorithms (Graduate level) Online Coursework: Deep Learning Specialization by deeplearning.ai (Coursera) 	GPA: 3.9 2019 - 2023
Honors and Awards	
CPC 2020 World Finals - International Collegiate Programming Contest, High Honor Award Ranked 17th in ICPC 2020 World Finals (4th place among all North American teams) Ranked 1st in ICPC North Central North American Regional Contest 2020	Oct 2021
OI 2018 - International Olympiad in Informatics, Bronze Medalist (Ranked 119/331)	Sep 2018
APIO 2018 - Asia-Pacific Informatics Olympiad, Silver Medalist (Ranked 24/173)	May 2018
Work Experiences	
 Google, Software Engineer Intern Explored and implemented a method to improve Google Recipes Search results ranking by utilizing rating score, thumbnail image quality, and other signals Improved recipe grouping with the majority of users' historical query refinements and achieved positive metrics feedback from human evaluation 	May 2022 - Aug 2022
 Data Wow Co., Ltd., Machine Learning Engineer Intern Reduced 83% of a human workload in ID card spam checking by switching to an AI solution to recognize similar cards and designing a backend system to self-maintain a card database 	Jun 2021 - Aug 2021
Academic Experiences	
 Undergraduate Research Assistant Research Group under Professor Sharon Li, Department of Computer Science, UW-Madison Explored safety aspects of large language models, emphasizing alignment and steering model decoding through reward models. Study and perform experiments on energy-based out-of-distribution detection in hyperspherical embedding space learned using contrastive learning, which outperforms current state-of-the-art methods. Auditing study to examine how GPT-3 responded to different sub-populations on crucial science and social 	Sep 2021 - Present

Student Grader for a Graduate Level Course, Department of Computer Science, UW-Madison

Jan 2023 - May 2023

• Grade assignments for COMP SCI 880: Quantum Algorithms course at UW-Madison

topics: climate change and the Black Lives Matter (BLM) movement.

Provide constructive feedback to students on technical work related to assignments

Guest Lecturer, UW-Madison ICPC Organization

Apr 2022 - Oct 2022

• Lead and facilitate discussion on string matching, advanced data structures, centroid decomposition, and advanced graph algorithms.

Selected Personal Projects

Education

Wisc-course-alert Apr 2021 - Apr 2022

- Request course status from the UW-Madison enrollment website via Rest API
- Manage users watching list databases and notify them when the courses become available

Parrot.Ai Mar 2022 - Apr 2022

 Developed a platform that allows users with low literacy to fill out forms without having to read or write to improve essential services accessibility using ReactJS and TailwindCSS

Technical Skills: C++, Python, R, Java, Javascript, PyTorch, HuggingFace, Keras, Detectron2, DeepSpeed, Docker, Kafka, HDFS, Spark, ReactJS, NodeJS, Flask, Celery, AWS, Google Cloud Platform, PostgreSQL, MongoDB, Elasticsearch