Meng Fong Lio

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EXPERIENCE

Pachira   Nov 2023 - Present
Research Intern
- Participated in the research and investigation of AI big model based hybrid interaction system, involving the integration of traditional NLP module and AI big model module. The main focus is on how these techniques can improve the system's responsiveness and comprehension accuracy, while ensuring the coherence of the user's contextual information during the interaction.
- Focuses on applying function invocation techniques to in-vehicle HCI tasks. This includes understanding how complex user commands can be processed through AI models and translated into calls to external service interfaces for real-time and accurate feedback.

Tencent   Jun 2023 - Aug 2023
Software Engineer Intern   Shenzhen, China
- Frontend Developer Intern at CSIG (Cloud & Smart Industries Group)
- Spearheaded frontend development initiatives for B2B products, focusing on enhancing user experience and interface functionality.
- In AI Assistance Product Center team, integrating AI-driven features to deliver intelligent business solutions.
- Delivered on multiple key projects, ensuring frontend solutions were scalable, robust, and aligned with business requirements.

University of Wisconsin-Madison Dept. Computer Science   Jan 2023 - May 2023
Undergraduate Research Assistant   Wisconsin, United States
Adviced by, Professor Yingyu Liang
- Deep learning / Graph Neural Networks / Representation Learning
- Pre-trained representations learning

Pachira   Oct 2022 - May 2023
NLP Developer
- Dialogue management: dialogue strategy, dialogue state tracking.
- Under team that do and research about dialogue state tracking for Toyota Japan.
- Provide end users with "cloud + core + terminal" integrated automotive intelligent interactive services.
- Track information exchanged between the system and the user, such as the user's goals, preferences, and constraints, and the context of the conversation.

University of Wisconsin-Madison Dept. Material Science   Sep 2022 - Dec 2022
Undergraduate Research Assistant   Wisconsin, United States
Adviced by, Professor Dane Morgan --Informatics Skunkworks Group Fall 2022
- Cloud Based Prediction Tools for Materials Properties, Machine Learning in chemsitry and material science

Vodatel - MegaDataTech   Jul 2022 - Aug 2022
Software Engineering Intern   Macao, Macao S.A.R
- Web support and develop, Cyber Security

Carnegie Mellon University Dept. Computer Science   Jul 2020 - Oct 2020
Undergraduate Student Researcher
Adviced by, - Algorithms for Big Data - David Woodruff (Instructor)
1) Studied in basic algorithm dynamic programming, hash, data structure, and double
algorithm design (the models and its optimization).
Adviced by, - Computer Networks & Telecommunication - Bill Nace (Instructor)
1) Exploring HTTP, TCP, IP, WiFi deeply to build skills for exploring Internet Protocol
Version 6 and 5G cellular networks.

PUBLICATION

Internet Protocol Verison 6 Migration   Jan 2021
- Published in International Core Journal of Engineering (Volume 7 Issue 9, 2021).
- The possibility of switching to IPV6.
- Instructor – Professor Bill Nace.

PROJECT

Online chat-app   Dec 2021 - Jan 2022
Creator
- Allow users to go into a specific room and communicate online anytime.
- Using JavaScript, NodeJS, React, HTML, and CSS to build.

Weather application   Nov 2021 - Dec 2021
Creator
- Using third-party data to provide to users about the weather based on their search.
- Using JavaScript, Handlebars, CSS

EDUCATION

University of Wisconsin-Madison   Sep 2021 - Jun 2025
Bachelor   Wisconsin, United States
Majoring in: Computer Science and Data Science
Certificate in: Game Design

Cleveland High School (Seattle)   Sep 2017 - Jun 2021
4 Year High School   Washington, United States
- GPA 3.909/4.0
- Class of 2021 ELITE EAGLES TOP 10

SKILLS, CERTIFICATIONS & OTHERS

- **Skills:** Java, HTML, CSS, JavaScript, (React, Node.js), R, Docker, Flutter, NVM Express, Vetur, Redis, Nginx, MongoDB, Spring Boot, Spring Framework, TypeScript, MySQL, SQL, Python, TypeScript (React)
- **Languages:** English, Cantonese, Mandarin