更改日志

20250104

1. 修改经历时间，删除月份
2. Skillset moves to the bottom and make it white
3. Remove 每个experience下的单独行skills

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| **WORK EXPERIENCE** |  |
| **Momenta** Software Engineer Intern | Shanghai, China | *2024* |
| * Delivered the first version of reversing feature in parking lots for **GM Cadillac Lyric** during a complete product life cycle * Developed a **clustering algorithm** to detect stuck states in autonomous vehicles, boosting recovery performance by 3% across 800+ **real** parking **test cases** in 30+ garages within 4 months * Designed a checker to detect prolonged braking stops, achieving 98% accuracy in identifying stuck states and reducing false positives by 15%, enhancing simulation reliability across 15,000+ events * Slashed the product manager’s workload by 87.5% through automating the advanced data processing of 36,000+ simulation test records per day across 6 parking scenarios | |
| **TECHNICAL LEADERSHIP** |  |
| **DJI RoboMaster Competition** | **[Git repo](https://github.com/SRM-Vision/SRM-Vision-2022)** | **[Video](https://www.youtube.com/watch?v=4uyBBJRXUTg)** |  |
| *Team Lead* | *2022 - 2024* |
| * Managed a 40-student team to build 8 types of robots from scratch for 2 years, winning the **3rd place** in RoboMaster 2023 * Gained **US$20,000** in sponsorship by increasing success rate in shooting, movement, and detection through **7000+ tests** | |
| *Co-Head of Robot Computer Vision* | 2020 - 2022 |
| * Deflected a **real-time** detection system for mobile robots, getting promotion by coding contribution and trouble shooting * Converted complete OpenCV-based object detection into OpenCV pre-processing+YOLOv7, increasing accuracy by 25% * Refactored the system in collaboration with 5 peers from **Python to C++**, achieving 60 and 80 fps on NVIDIA NX and AGX * Initiated a movement prediction algorithm that processes object detection key points, improving efficiency by 50% | |
| **MealMate: From Cravings to Carts** | **[Git repo](https://github.com/LIYunzhe1408/MealMate)** | **[Video](https://youtu.be/bAT-jZhDtCw?si=HPL83vIrPcu6HJY9)** | *2024* |
| *Team Lead*   * Designed **a LLM assistant** that delivers tailored shopping lists based on user preferences and real-time store inventory * Benchmarked GPT-4o-mini against GPT-4 and GPT-3.5-turbo for LLM agent performance, demonstrating 20% higher recipe match precision and 40% suggestion accuracy, and 42% reduced processing time * Developed the UI/UX in React.js frontend, and effective prompts and transaction logic in a Flask backend for showcase | |
| **FIRST Tech Challenge** | **[Team Documentary](https://www.youtube.com/watch?v=ZKn0rDUpNfY)** | *2017 - 2020* |
| *Team Lead*   * Bent the performance of a 15-member team, leading to 2 FIRST World Championships admissions(**top 2 %** out of 7500 teams globally), 1 Inspire Award(**1st** out of 40 teams), and 3 Connect Awards**(top 8%** out of 60 teams) * Developed an autonomous system using multiple sensors and **OpenCV**/**TensorFlow SDK** for controlling and 95%+ accuracy detection, achieving **highest** score in the **Regional** with rule-based human driver imitating strategies | |
| **RESEARCH** |  |
| **Visual Explainer For Deep Learning Decisions** | **[Demo Video](https://www.youtube.com/watch?si=gGqRFG9EwhzPH2b1&v=HcAEPgrM9zM&feature=youtu.be)** | *2023 – 2024* |
| * Designed a 2-stage **semantic segmentation** and an **AutoEncoder** with tree constraints to extract and rank concepts by importance using Shapley Value, boosting consistency score by 35% on 1000+ images from 20 **ImageNet** classes * Developed a **Django backend APIs** for page navigation, handling **GET** and **POST** requests, and efficient data retrieval * Built a **Vue.js** **frontend** showing features such as user login, image segmentation, and contribution heatmap visualization | |
| **Mining Property Relations of NASICON Solid Electrolyte** | *2021 - 2023* |
| * Labeled 7,000+ high-quality NASICON literature sentences, improving **Named Entity Recognition** (NER) model performance by 5% in precision, **3%** in recall, and 4% in F-1 score * Developed a **BERT-based data processing pipeline** to extract 106,896 material entities and 260,475 entity-relation triples from 1,808 NASICON-related literature sources, with efficient storage in **Neo4j** and **MySQL** as **backend database** * Built a **Vue.js** platform with **Element UI**, **routing**, and **state management**, allowing materials scientists to identify target texts in literature and convert them into a **knowledge graph** to explore relationships between material properties | |