更改日志

20250123

1. 添加personal website，remove youtube

20250107

1. 修改姓名字号from 20
2. 添加location
3. Polish by GPT with the prompt: First, imagine you are a staff-level software enginner in computer vision and robotics and the hiring manager. Polish this for an entry-level to be professional and concise on resume. Then, bold the highlight word that you feel the most awesome, highlights should not be too much

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

|  |  |
| --- | --- |
| **WORK EXPERIENCE** |  |
| **Momenta**  Software Engineer Intern | Shanghai, China | *2024* |
| * Delivered the first version of the **reversing feature** for **GM Cadillac Lyric** autopilot, covering the **full** **product** **lifecycle** * 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 identify prolonged braking stops, achieving **98% accuracy** in detecting stuck states and reducing false positives by 15%, improving simulation reliability for 15,000+ events * **Slashed** the product manager’s **workload** by **87.5%** through automating the advanced data processing for 36,000+ daily simulation test records 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* |
| * Led a 40-student team to **deliver** 8 fully functional robots **from scratch**, winning the **3rd place** in RoboMaster 2023 * Gained **US$20,000** in sponsorship by improving shooting, motion control, and detection through **7000+ test iterations** | |
| *Co-Head of Robot Computer Vision* | 2020 - 2022 |
| * Deflected a **real-time** detection system for mobile robots, gaining **promotion** for code contributions and troubleshooting * Enhanced detection accuracy by **25%** by upgrading from pure OpenCV detection to an OpenCV + **YOLOv7** hybrid system * Refactored the system from **Python to C++** with 5 peers, achieving **60 fps** on NVIDIA NX and **80 fps** on NVIDIA AGX * Initiated a movement prediction algorithm processing detected key points, outperforming **90%** competitors in metrics | |
| **MealMate: From Cravings to Carts** | **[Git repo](https://github.com/LIYunzhe1408/MealMate)** | **[Video](https://youtu.be/bAT-jZhDtCw?si=HPL83vIrPcu6HJY9)** | *2024* |
| *Team Lead*   * Designed an **LLM-powered** **assistant** to generate tailored shopping lists using user preferences and real-time 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% faster processing time * Built a showcase using **React.js** for the frontend and **Flask** for the backend with effective prompts and transaction logic | |
| **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**, achieving **95%+** detection accuracy and securing the **highest** Regional score 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, using Shapley Value to extract and rank concepts by importance, 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** with features such as user login, image segmentation, and contribution heatmap visualization | |
| **Mining Property Relations of NASICON Solid Electrolyte** | *2021 - 2023* |
| * Improved a Named Entity Recognition (NER) model by labeling 7,000+ high-quality sentences, boosting precision by 5%, recall by 3%, and F-1 score by 4% * Developed a BERT-based data **processing pipeline** to extract 106,896 entities and 260,475 entity-relation triples from 1,808 literature sources, storing result in Neo4j and MySQL | |