

Zhihao Chen

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Education

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| Polytechnic University of Catalonia (UPC) , Artificial Intelligence | Barcelona, Spain |
| • GPA: 8.9/10 | Sept 2022 – June 2026 |
| • 4 courses with academic distinction | |
| Federal Polytechnic School of Lausanne (EPFL) , Computer Science | Lausanne, Switzerland |
| • Exchange semester as part of BSc program | Sept 2025 – Feb 2026 |

Experience

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| IRI - UPC , Undergraduate Researcher | Barcelona, Spain |
| Future Action Prediction in Video Models | Feb 2026 – present |
| • Investigating modern state-space architectures (e.g., Mamba) for modeling long-range temporal dependencies in future action prediction from video. | 1 month |
| BioRob - EPFL , Visiting Research Student | Lausanne, Switzerland |
| Context-Aware Spatial Action Recognition | Sept 2025 – Feb 2026 |
| • Developed a context-aware interaction framework (based on SkateFormer) to resolve spatial user intent in multi-robot scenarios. | 6 months |
| • Proposed an Implicitly Guided Geometric Fusion strategy for robust generalization to unseen/occluded layouts. | |
| • Curated a 10k-sample dataset and deployed the pipeline on a ROS2-based mobile swarm with 25ms latency. | |
| PayRetailers , AI Engineer Intern | Barcelona, Spain |
| Multi-Agent Systems and LLM Analysis | June 2025 – Aug 2025 |
| • Developed and analyzed AI agents using advanced context engineering. | 3 months |
| • Designed complex multi-agent workflows through n8n, documenting emergent behaviors. | |
| • Built B2B products including pricing calculators, RAG chatbots, and report generators. | |

Skills

Programming Languages: Python, C/C++, SQL, MATLAB, R, Prolog, PDDL
Frameworks & Libraries: PyTorch, TensorFlow, Scikit-Learn, Hugging Face, LangChain, Lightning
Tools & Platforms: Git, Docker, SLURM, WandB, MLflow, Linux/Bash, LaTeX

Languages

Chinese: Native proficiency
Spanish: Native proficiency
English: Professional proficiency (C1)
Catalan: Professional proficiency (C1)