Jolin Ma

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SUMMARY

AI-focused full-stack developer with experience in **LLM integration, RAG systems, and AI-powered applications**. Skilled in building scalable backends and intuitive user interfaces using **TypeScript, React, and GraphQL**, with additional expertise in **Rust/Substrate and Solidity** for blockchain development.

EDUCATION

University of Waterloo (Canada) – *M.Eng., Electrical & Computer Engineering*
Jan. 2025 – Dec. 2025 (expected)

Southern University of Science and Technology (China) – *B.Eng., Electronic & Electrical Engineering*
Sep. 2020 – Jun. 2024

SKILLS

Programming Languages: TypeScript/JavaScript, Rust, Python, Solidity, Java, MATLAB
Tools & Frameworks: React, NestJS, GraphQL, Git, Docker, Linux, Polkadot.js, OpenCV, ROS
Core Strengths: Fast learner, proactive problem-solver, collaborative team player
Languages: Mandarin (Native), English (Fluent)

EXPERIENCE

Blockchain & Backend Developer Intern | Bifrost (bifrost.io)
May 2024 – Present · Remote

- Developed and optimized Substrate-based runtime modules and EVM-compatible smart contracts (Rust/Solidity).
- Built and maintained APIs and automation scripts to process and monitor real-time blockchain data.
- Deployed backend services with Docker/Linux, ensuring performance and reliability.

Full Stack Software Developer Intern | Pebbles AI (pebblesai.xyz)
Jun 2025 – Present · Hybrid: Toronto/Remote

- Designed and deployed a local LLM-powered Retrieval-Augmented Generation (RAG) system.
- Customized pipelines and API integrations for client-specific needs, ensuring usability for non-technical stakeholders.
- Optimized data flow and inference performance to run large-scale models efficiently on limited GPU resources.

PROJECTS

Natural Language Command Person-Following Robot | *Sep 2023 – May 2024*

- Built a robot capable of executing natural language instructions by integrating LLM APIs with ROS.
- Improved human-following algorithm reliability in dynamic environments.

Mercat – Autonomous Cat-Feeding Robot | *Jun 2023*

- Developed a mobile robot with CNN-based vision to classify cat breed/age.
- Automated food dispensing with a custom 3D-printed mechanism, adjusting portions based on predictions.