

Yang(Simon) Xiang

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EDUCATION & HONORS

- **Brown University**
Master of Science in Computer Science; GPA: 3.90 *Aug. 2024 – May. 2026*
 - Courses: Self-Supervised Learning, Deep Learning, Distributed Database, Operating Systems, etc.
- **Tsinghua University**
Bachelor of Science in Applied Mathematics; GPA: 3.71 *Aug. 2020 – Jun. 2024*
 - Courses: Data Structure, Software Engineering, Numerical Analysis, Object Oriented Programming, etc.
- **China National Mathematics Olympiad (CNMO)**
National First Prize (top 0.1% among 20k participants) *Oct. 2018*

WORK EXPERIENCE

- **Voleon Group @ Infra Team**
Software Development Engineer | Go, Python *Jul 2026 – Present*
- **Bytedance @ Bytedance Dev-Infra Team**
Software Development Engineer Intern | Typescript, C++, Python, Go, LLM, Codex, Skill *Dec 2025 – Jan 2026*
 - Developed a **fully-automated code generation and execution** pipeline using an **agent-style CLI framework (Codex SDK)**, supporting stream output and improved **agent Skill** to increase ut-gen **success rate by 30%**.
 - Extended an internal **VS Code developer plugin** by adding fast unit-test generation for **C++ and Python**, including C++-specific code merging logic and usage support for **Bazel/Blade**-based build environments.
- **Microsoft @ Microsoft.AI(MAI) Team**
Software Development Engineer Intern | Python, C#/.NET, PyTorch, LLM, Redis, REST API *Apr 2024 – Jul 2024*
 - Led design and implementation of a multi-stage **LLM router framework** for **Microsoft Copilot** using **Python** and **C#**, combining **Azure OpenAI embedding endpoints**, **PyTorch-based lightweight MLP classifier** and rating policies to achieve **10% accuracy gain** and **30% cost reduction** in benchmarks.
 - Drove successful A/B test launch serving **100K+ users**, significantly improved **user satisfaction** and **cost efficiency** in collaboration with applied scientists; the framework was later adapted for **production use**.
 - Implemented backend components for a **distributed .NET system**, including **Cosmos DB data models** and **Redis** ranking; reduced read latency to **10ms** and decreased API error rate by **40% under high load**.
- **Kwai @ Kuaishou Local Life(Kwailocation) Team**
Software Development Engineer Intern | Python, Flask, Pytorch, Typescript, SQL, React, LLM *Jul 2023 - Dec 2023*
 - Led **end-to-end** development of a predictive analytics platform using **Python Flask**, combining **Ridge Models** with **cross-categorical encoding**, delivering actionable insights in **d3 visualization** to **600+ shops**.
 - Developed a data dashboard serving **500+ employees** using **React** and **TypeScript**, combining a frontend **builder-pattern SQL generator** with a backend **Text-to-SQL LLM agent** that interfaces with internal table metadata.

PROJECTS

- **GALA (Multi-LLM-Agent for Graph Classification)** [Draft available upon request]
Researcher & Software Engineer | Python, Pytorch, GNN, Multiprocessing *Dec 2024 - Jun 2025*
 - Authored a paper(submitted to **ACL 2025**) on a novel multi-agent framework for graph classification tasks.
 - Designed a modular, **multi-agent** graph classification framework supporting **end-to-end, config-driven auto-training**. Leveraged **Pytorch** and **Python multiprocessing** for parallel experiments, achieving a **5% accuracy improvement** and **3× speedup** over baseline pipelines via benchmark and ablation studies.
- **PitchPerfecter (Music Training Website)** <https://singleview11.github.io/>
Founder & Software Engineer | Spring Boot, React, PostgreSQL, GraphQL, AWS *Feb 2024 - Aug 2025*
 - Founded a feature-rich music training site, acquiring **over 6000 users** through independent promotion.
 - Developed the **full-stack system**, with a **React frontend** (using **Tone.js** and **ECharts**) and a **Spring Boot backend** (**GraphQL** reads / **RESTful** writes); cut **PostgreSQL** query latency by **50%** via **compound indexes** and deployed on **AWS EC2**.

PROGRAMMING SKILLS

- **Languages:** Python, C++, Java, TypeScript, JavaScript, C#, SQL, Go, PHP
- **Backend & DataBase:** Spring Boot, .NET, Flask, Node.js, PostgreSQL, Redis, Cosmos DB
- **Frontend:** React, Vue, HTML, CSS, Ant Design, Echarts, Webpack, Vite, Yarn
- **Machine Learning:** Pytorch, Pandas, Numpy, Tensorflow, Matplotlib
- **Developer Tools:** Git, Docker, AWS, Linux, Github, VS Code, Copilot, Cursor, QT Creator