Shuolin (Leo) Yin

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EDUCATION

University of Toronto
Toronto, ON

Computer Engineering, Faculty of Applied Science & Engineering
Sep 2023 – Apr 2027

- Faculty Of Applied Science And Engineering Admission Scholarship
- Edward S. Rogers Sr. Admission Scholarship

WORK EXPERIENCE

The Institute of Automation, Chinese Academy of Sciences (CASIA)
Beijing, China

Research Assistant
May 2024 - Present

- Co-authored research papers with the aiming of publishing in top conferences and journals in CVPR 2024 or Nature sub-journals.
- Investigated solutions to the hallucination problem in Multi-Modal large language models, including reviewing and synthesizing literature, proposing improvements, and attempting paper reproductions.
- Presented weekly progress reports to the research group, including proposed solutions and project updates.
- Completed advanced coursework, including Stanford's CS231n and Andrew Ng's Generative AI and LLM courses, to support project contributions.
- Contributed to building a benchmark for Multi-Modal Large Language Models (MLLM), including data collection and creating an automated pipeline for data segmentation and annotation.

VolunTrack Org.
Toronto, ON

President/Founder
Jun 2022 - Present

- Founded the NGO with a four-tier management system, combined the organizational structure, formulated strategic guidelines and leading the rapid expansion with a leadership of 40+ people
- Secured a partnership with Google, have provided GCP credits and advanced technical training for 20+ members.
- Developed and iterated web/mobile applications using HTML, CSS, JavaScript, React Native, and React JS.
- Proficient in back-end database management, application version control, and front-end user interface design to enhance user experience
- Iterated to version 3.0.2 of the application through multiple CI/CD life cycles using Agile development methodology with continuous improvement and user feedback
- Collaborated with over 100 non-profit organizations worldwide and serving as guest speaker at several seminars, offering students real-world project opportunities.

PROJECT/SCHOOL EXPERIENCE

IEEE UofT
Toronto, ON

Web Team Associate
Jun 2024 - Present

- Maintained and developed both backend and frontend for the IEEE UofT website and event-specific platforms.
- Developed and managed a hardware inventory and distribution platform, ensuring efficient tracking and management of resources.
- Implemented and maintained a Discord bot to automate and enhance member interactions and event coordination.
- Utilized technologies such as React JS for frontend development and Django for backend development.

YiXing Software Development
Toronto, ON

Project Leader / Co-Founder
Jun 2023 - May 2024

- Lead and create travel planning applications driven by fine-tuned LLM with a focus on personalized itineraries and sustainable tourism.
- Proficient in cross-platform mobile development using React Native and AI integration.
- Developed and fine-tuned a Retrieval-Augmented Generation (RAG) system, incorporating a vector database of previously generated plans for similarity matching, to enhance output efficiency and quality.
- Proficient in cloud computing and server management, using AWS and nodeJS for cloud and backend development

SKILLS

Programming Languages: JavaScript, C/C++, C#, HTML, Python, Matlab, Swift.
Tools/Frameworks: OpenCV, yolo, React Native, React JS, Node.js, jQuery, Xcode, Firebase, Google Cloud, AWS, Unity, LangChain, Git, VS Code, Fusion 360, Blender, AutoCAD, Xcode.