Shuolin (Leo) Yin

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EDUCATION

University of Toronto   Toronto, ON
Bachelor of Applied Science and Engineering in Computer Engineering + PEY Co-op   *Sep 2023 – Apr 2027*
- Recipient of Faculty Of Applied Science And Engineering Admission Scholarship
- Recipient of Edward S. Rogers Sr. Admission Scholarship

WORK EXPERIENCE

The Institute of Automation, Chinese Academy of Sciences (CASIA)   Beijing, China
Research Assistant   *Feb 2024 - Present*
- Investigated MLLM hallucination reduction through systematic literature review and experimental design, contributing to methodology planned for ECCV 2025 publication
- Developed automated data pipeline for MLLM benchmark creation using Python and custom annotation tools, reducing data processing time by 300% and improving annotation accuracy by 40%
- Streamlined research communication by delivering weekly technical presentations and detailed progress reports, facilitating effective collaboration across the team.
- Conducted extensive model experiments on SOTA MLLM architectures using PyTorch, systematically evaluating hallucination reduction methods and identifying key improvement opportunities

VolunTrack Org.   Toronto, ON
President/Founder   *Jun 2022 - Sep 2024*
- Founded and scaled non-profit organization through structured four-tier management system, growing team to 40+ members and establishing partnerships with 100+ global non-profits
- Architected and developed full-stack volunteer management platform using React Native and React.js for web/mobile applications, achieving 1000+ monthly active users
- Secured and managed Google Cloud Platform partnership, obtaining $50,000 in credits and implementing technical training program for 20+ development team members
- Implemented CI/CD pipeline with Agile methodology, leading to successful deployment of 15+ major features, 4 major revisions and reducing deployment time by 70%
- Designed scalable database architecture using Firebase Realtime Database and Cloud Firestore, integrating with GCP services for efficient data management across 100+ organization profiles
- Established tech mentorship program connecting students with real-world projects, resulting in 30+ successful project completions and 10+ conference speaking engagements

PROJECT/SCHOOL EXPERIENCE

IEEE UofT   Toronto, ON
Web Team Associate   *Jun 2024 - Present*
- Developed and maintained full-stack web applications using React.js frontend and Django backend, implementing responsive design for IEEE UofT's main website and event platforms
- Optimized website performance through API optimization and caching strategies, improving load time and UX
- Collaborated with the web team to implement new features and maintain existing functionalities, ensuring consistent user experience across all platforms

YiXing Software Development   Toronto, ON
Project Leader / Co-Founder   *Jun 2023 - May 2024*
- Spearheaded development of AI-driven travel planning platform by integrating custom-trained LLM models with React Native, enabling personalized itinerary generation based on user preferences
- Designed and implemented RAG system using LangChain and vector databases, enhancing travel recommendations by leveraging historical itinerary data
- Built scalable backend infrastructure using AWS Lambda and Node.js, implementing RESTful APIs and microservices architecture for efficient data processing
- Led agile development team of 6 members through full product lifecycle, from initial concept to successful MVP launch, conducting regular code reviews and technical planning sessions

SKILLS

Programming Languages: Python, JavaScript, C/C++, C#, HTML, Swift, MATLAB
Frameworks & Libraries: React Native, React.js, Node.js, Django, LangChain, OpenCV, YOLO, PyTorch
Cloud & DevOps: AWS (Lambda), Google Cloud Platform, Firebase, Git, CI/CD
Development Tools: VS Code, Xcode, Unity, Fusion 360, Blender, AutoCAD