

LINXIN LI

+1 778-680-6553

✉ linxin.li@mail.utoronto.ca

🌐 [LinkedIn](#)

🌐 [Personal Website](#)

Education

University of Toronto

Master of Engineering with an Emphasis in Applied Machine Learning

Sept 2024 – May 2026

Toronto, Ontario, Canada

University of British Columbia

Bachelor of Applied Science in Computer Engineering

Sept 2021 – May 2024

Vancouver, British Columbia, Canada

Relevant Coursework

- Machine Learning
- Software Engineering
- Computer Algorithms
- Database Systems
- Large Language Models
- Data Structures
- Full-stack Development
- Cloud Computing

Technical Skills

Languages: HTML/CSS, Java, C/C++, Golang, JavaScript, MySQL, Python, TypeScript

Developer Tools: DBeaver, Git, GitHub Actions, Jenkins, Jira, Lens, Postman, Microsoft 365 Suite

Technologies & Frameworks: Anaconda, AWS (Certified Solutions Architect), Docker, Kubernetes, Linux, MongoDB

Professional & Research Experience

SAP SE

Apr 2025 – Sept 2025

AI Application Engineer Intern

Shanghai, China

- Developed core features for Joule AI Assistant using python and GPT-5. Modernized CI/CD for Joule by architecting a modular GitHub Actions pipeline using Project Piper and Kyma; automated the deployment process via ArgoCD.
- Architected end-to-end testing for Joule and Codengine using Cucumber and Pytest; automated daily Jenkins reporting and maintained 90%+ integration and 95%+ unit test coverage per sprint.
- Engineered a Flask RESTful API to orchestrate 50+ IoT devices via OrionStar robots, automating showroom demonstrations for international visitors and replacing manual control with a synchronized system.

Urban Data Research Center

Sept 2024 – Apr 2025

Full Stack Developer

Toronto, Canada

- Architected an automated Divide, Conquer, Recheck (DCR) pipeline using Python and GPT4o to extract structured numerical data from scientific publications; achieved 88% accuracy across 1,464 data points.
- Developed an interactive React dashboard for the City Digital Twin Project, integrating GraphDB via SPARQL to visualize stratified urban data through map-based indicators and multi-dimensional charts to facilitate "complete community" analysis and data-driven urban planning.

University of British Columbia

Sept 2023 – Apr 2024

Research Assistant - Applied Machine Learning and Federated Learning

Vancouver, Canada

- Optimized deep learning architectures for the MedFM Medical Image Classification Challenge, achieving **80%** accuracy on multi-domain medical datasets through advanced data curation and fine-tuning of state-of-the-art models.
- Developed a Byzantine-robust Federated Learning aggregation strategy to mitigate poisoning attacks; implemented a dynamic weighting mechanism that identifies malicious clients by analyzing current and historical update trajectories.
- Evaluated Federated Learning vulnerabilities by engineering an adversarial attack framework; simulated sophisticated model poisoning that dynamically mimicked benign client behavior, successfully degrading global model accuracy by 5%.

SF Express

Apr 2023 – Sept 2023

Software Engineer

Shenzhen, China

- Architected an automated evaluation pipeline to trigger LLM inference on large-scale datasets and programmatically benchmark outputs against ground-truth labels, streamlining the model validation lifecycle
- Developed a multi-tier dashboard enabling regional managers to query delivery worker compliance; implemented a hierarchical data-fetching API and complex filtering logic to manage provincial and city-level data granularity.
- Architected an integrated automation suite using Selenium and Pytest to conduct end-to-end (E2E) testing across frontend and backend APIs; validated 300+ functional points and achieved 95% code coverage across unit and integration test suites to ensure system-wide stability.

Selected Projects

Immersio Immy Chatbot | Python, MongoDB, JavaScript, Java, HTML & CSS

Sept 2023 - May 2024

- Developed a full-stack voice-based AI chatbot using Flask and MongoDB, featuring a dynamic frontend in HTML/CSS that adjusts content based on real-time user course progress.
- Engineered backend logic for automated speech evaluation, implementing core modules for vocabulary level analysis, fluency classification, and grammatical assessment to track user proficiency.