LINXIN LI

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Education

University of Toronto — **Sept 2024 – May 2026**
Master of Engineering with an Emphasis in Applied Machine Learning — *Toronto, Ontario, Canada*

University of British Columbia — **Sept 2021 – May 2024**
Bachelor of Applied Science in Computer Engineering — *Vancouver, British Columbia, Canada*

Relevant Coursework

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

Technical Skills

Languages: HTML/CSS, Java, JavaScript, MySQL, Python, TypeScript
Developer Tools: DBeaver, Git, GitHub Actions, Jenkins, Jira, Lens, Postman, Microsoft 365 Suite
Technologies & Frameworks: Anaconda, AWS, Azure, Docker, Flask, Kubernetes, Linux, MongoDB, React

Professional & Research Experience

SAP SE — **Apr 2025 – Sept 2025**
AI Application Engineer Intern — *Shanghai, China*

- Developed new features for SAP Joule AI Assistant, such as smart promotion search, intelligent customer support and troubleshooting, and automated promotion creation from user input; updated CI/CD workflows using GitHub Actions.
- Implemented integration and unit tests for Joule and Codengine using Cucumber and Pytest, achieving 90% IT and 95% UT coverage each sprint; established an automated daily testing pipeline on Jenkins.
- Designed and implemented a Flask-based server for OrionStar robots, enabling remote control of over 50 devices in the SAP Lab Shanghai IEC showroom via RESTful APIs.
- Analyzed 3,000+ questions from 7 SAP partners using Python for data processing and GPT-5, identifying key topics of shared concern across partners through LLM-based aggregation and insights.

Urban Data Research Centre — **Sept 2024 – Apr 2025**
Full Stack Developer — *Toronto, Canada*

- Designed and implemented an automated DCR (Divide, Conquer, Recheck) workflow to extract user-specific numerical data from scientific papers and literary works, achieving 88% accuracy on 1,464 data points across 61 publications.
- Developed new features for the Urban Data Research Centre web page, including interactive pie charts for neighborhood amenity information, dynamic map highlighting user-selected amenity types, an FAQ page, and more.

University of British Columbia — **Sept 2023 – Apr 2024**
Research Assistant - Applied Machine Learning and Federated Learning — *Vancouver, Canada*

- Participated in the MedFM Medical Image Classification Challenge; labeled abnormalities in diverse medical image datasets and optimized classification models with advanced deep learning architectures, achieving 80% accuracy.
- Implemented a federated learning aggregation strategy that detects potential malicious clients based on current and historical updates, and then dynamically adjusts each client's weight in aggregation.
- Implemented a federated learning attack strategy that dynamically adjusts malicious client updates based on the current and historical behavior of benign clients, resulting in a 5% reduction in image classification model accuracy.

Selected Projects

Immersio Immy Chatbot | *Python, MongoDB, JavaScript, Java, HTML & CSS* — **Sept 2023 - May 2024**

- Designed and implemented an voice-based conversational chatbot that dynamically adjusts its response based on the user's speech proficiency and course progress.
- Developed a backend server using Flask, implementing core functionalities such as vocabulary level analysis, speech fluency classification, and sentence grammar assessment enabling evaluation of user speech proficiency.
- Implemented a MongoDB database to store users' course progress and fluency information, and a frontend using HTML & CSS for user interaction.

UBC Mobile Community Platform | *Java, Node.js, MongoDB, Google APIs* — **Apr 2022 - Sept 2022**

- Designed and developed an **Android** community platform with features including post creation, commenting, reporting, and amenity search. Deployed a **Node.js** backend with a **MongoDB** database on Azure and integrated Google APIs.
- Ensured high app quality, security, and performance by implementing comprehensive testing strategies including functional, compatibility, performance, API, a 'nd UI testing, resulting in a reliable and user-friendly experience.