

# Qingyi (Cherry) Xia

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## EDUCATION

### University of Toronto

*Master of Engineering (MEng)*

*Emphasis: Data Analytics & Machine Learning*

Sep 2024 – Sep 2025

GPA: A to A+ in all courses

### University of Toronto

*Bachelor of Applied Science*

*Major: Industrial Engineering Minor: Artificial Intelligence*

**Awards:** Dean's Honour List in 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> year (top 20%)

Sep 2019 - Jun 2024

GPA: 3.51/4.00

## WORK EXPERIENCE

### Nari Technology Co., Ltd.

*Data Analyst Intern*

Jun 2023 - Aug 2023

Beijing, China

- Assisted in analyzing smart grid system performance, improving efficiency in feedback processing, and supporting the optimization of power transmission and distribution projects at the company.
- Collaborated with cross-functional teams to identify KPIs in several new product teams and developed data visualization dashboards, received highly positive feedback for creative use of infographics.
- Conducted data quality audits on power system performance data and implemented various cleaning techniques, achieved 25% reduction in data inconsistencies and entry errors, enhancing overall accuracy of analyses for the company's power system projects.

### Smile Digital Health

*Backend Software Developer-Coop*

May 2022 – May 2023

Toronto, Ontario

- Developed backend solutions using the Node.js framework, contributing to the successful implementation of 25% of RESTful APIs with JSON Web Token (JWT) authentication, ensuring error-free connections reliability of the health information technology platform.
- Collaborated closely with the software development team to implement efficient data storage and retrieval solutions using RESTful APIs and GraphQL, enhancing the performance of electronic health record systems for patients and healthcare providers.
- Redesigned the database structure using Boyce-Codd Normal Form, boosting data efficiency by 30% through improved data normalization and integration.
- Implemented critical security measures using bcrypt.js for password hashing, crypto for data encryption, and Passport.js for access control, ensuring the protection of sensitive patient data. These measures ensured compliance with HIPAA standards and other industry regulations through encryption and role-based access control mechanisms.

## PROJECT EXPERIENCE

### MoveU.HappyU Capstone Project (Top 3)

*Full Stack Developer*

Sep 2023 – June 2024

Toronto, Ontario

- Led an engineering group to develop a mobile application called 'MoveU.HappyU', aimed at improving students' mental and physical well-being. The application records, stores input health data, and generates visualized reports.
- Tested high-fidelity features using Figma and conducted UI/UX tests with 50 users, receiving an 87% positive rating.
- Utilized a Node.js backend with MongoDB and integrated OAuth 2 and SSL API practices to ensure secure handling of user data.
- Implemented the frontend using React Native, Bootstrap CSS, optimizing navigation efficiency to enhance user experience across both iOS and Android platforms.
- Created and documented UI testing procedures using the Jest framework and maintained comprehensive documentation of the testing process.

## TECHNICAL SKILLS

Programming Languages: Java, Python, HTML, C#, JavaScript/TypeScript, CSS, SQL, Swift

Tools/Software: MYSQL, SQLite, MongoDB, Oracle DB, Git, Postman, AWS, Angular, Docker, TensorFlow, PyTorch, Scikit-learn, Pandas, Hadoop, Apache Spark

Fluent with frameworks such as Ionic, ReactJS, AngularJS, and experienced in multi-threaded server/client-side code, DBMS & API's

