# HONGYUAN LIU

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## SUMMARY

A passionate Fourth-year student at University of Toronto, double specialist in Computer Science & Data Science. Expertise in Flutter Mobile App Development, Web Development, Data Analysis. Actively contributing to 10+ projects, business startups, over 1000+ contribution on GitHub. Learning more about me at liustev6.ca

## EDUCATION

**Bachelor of Science 2020–2025**

University of Toronto, Toronto, ON

- Double Specialist in Data Science and Computer Science
- President of UofT Tutoring Club
- Named as Dean's List Scholar for the 2021, 2022, 2023 academic year
- Cumulative GPA of 3.9

## SKILLS

- **Mobile App Development** – Flutter, Firebase, Figma, Kotlin, Swift, XML
- **Web Development** – HTML, CSS, React, NextJS, JavaScript, AWS
- **Data Scientist** – R, Machine Learning, Data Visualizing, NLP.
- **Other Development** – Python, C, Java, Computer Vision, AI, Django
- **Data Engineer** – SQL, NoSQL, JSON, Database Design
- **Leadership** – Project leadership and coordination, Team Management
- **Business** – Business Startup, Business Model, User Experience

## EXPERIENCE

### CLOUD AND MOBILE APP DEVELOPER CO-OP

*Johnson Controls | Concord, ON | May 2023 – May 2024 (Expected)*

- Develop a Home Security/Community App using Flutter with firebase backend, providing real-time geolocation services using GCP API.
- Create API integration to facilitate communication between App and Google Matter Devices through a cloud database.
- Skilled in IOS/Android development tools including Gradle, XCode.
- Design intuitive UI with Figma and translate designs into Flutter App.

### CAMPUS EATS – MOBILE APP DEVELOPING & BUSINESS STARTUPS

*Project Leader | Toronto, ON | May 2023 - Current*

- Design and develop an online ordering App catering to UofT Food Truck and restaurants using Flutter with firebase backend.
- Design and implement No-SQL firestore DB, apply aloglia integration for full-text search, and cloud functions for DB operations.
- Demonstrate effective project leadership and coordination by assigning weekly tasks, providing detailed instructions to team through Github project backlog. Early Startup Business Planning.
- Produce demo videos showcasing the features of CampusEats (here).

### RESEARCH ASSISTANT – NETWORKING DATA CENTER ACCELERATOR

*Qizhen Zhang | Toronto, ON | Sep 2023 – Current*

- Optimize performance of DBMS with accelerators (GPUs, FPGAs).
- Develop a unified abstraction hardware acceleration for DBMS.
- Build a network for scaling out data management accelerators.

### PERSONAL WEBSITE DEVELOPING – LEARN MORE AT **LIUSTEV6.CA**

*Self-Project | Toronto, ON | June 2023 - Current*

- Launch and maintenance my personal website. Developed by React Front-end with Django backend hosted on an AWS EC2 instance.
- Create simple interactive animation using CSS.
- Detailed Explanation of projects, with video demos and interactions.

### DATA SCIENCE PROJECTS COLLECTION WEBSITE – **LINK TO WEBSITE**

*Self-Project | Toronto, ON | June 2023 - Current*

- Develop a Data Science Projects Showcasing website by Rmarkdown.
- Leverage Linear Regression model to predict NBA players' NBA2K ratings based on their regular-season statistics.
- NLP to assess Clash Royale players' sentiment toward game updates.
- Analyzing Phosphorus Pollution level in Great Lakes (Link to Website)