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, Kotlin, Swift, React Native
- **Web Development** – HTML, CSS, React, NextJS, JavaScript, AWS
- **Data Scientist** – R, Machine Learning, Data Visualizing, NLP.
- **Data Engineer** – SQL, NoSQL, JSON, Database Design, DBMS
- **Other SKILls** – Python, C, Java, Computer Vision, AI, Django, Figma
- **Leadership** – Project leadership and coordination, Team Management
- **Business** – Marketing, 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, HA 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.

FOUNDER AND PROJECT LEARER – **DEMO HERE**

Campus Eats | Toronto, ON | May 2023 - Current

- Design, develop & launch Campus Eats Mobile App tailored for UofT's food trucks and restaurants using Flutter with firebase backend.
- Contribute 30K+ lines of code, 20+ features in both front/back-end.
- Design and Implement No-SQL Database with 10+ tables.
- Demonstrate effective project leadership by leading multiple diverse teams of 10+ people such as tech, business, media, and UI/UX. Effective coordinate tasks and schedules for all team members.
- Recognized by two courses at UofT, formally registered as company.

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)