

# Lucas Jin

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## Education

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### Merivale High School

Sept 2021 - Present

International Baccalaureate DP

Average: 97.5

- **Clubs:** Math (Executive, 2021-Present), Mock Trial (Executive, 2022-Present), CS (Member, 2021-Present)

## Projects

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### Lips Lips Revolution - Hack the North 11 [🔗](#)

Sept 2024

- Created a lip syncing game with a userbase of over **50 people** using the **Symphonic Labs Mamo API** and **OpenAI embedding models**.
- Reduced latency from **30** seconds to **7** seconds by **reverse-engineering** the Mamo API with websockets.
- Utilized **Next.js** for rapid full stack development and QR codes and **MongoDB** for user authentication/tracking.

### StudySphere - UOttHack 6 [🔗](#)

Mar 2024

- Developed a social studying platform with features such as account creation, user authentication and posting features using **Flask**.
- Defined users and their questions/answers with a local **relational database** made with **SQLAlchemy**.

### FRC 8729 Attendance Bot [🔗](#)

Nov 2024 - Present

- Utilizing the **Discord API** with a **SQLite database** and **Python** to track attendance of a team with **90+ members** with a clock-in/clock-out mechanism.
- Integrating a custom calendar format attendance spreadsheet with the **Sheets API** for more accessibility.

### ZenithAI (Ongoing) [🔗](#)

Oct 2024 - Present

- Developing a web application to summarize the most recent scientific literature on muscle hypertrophy using **React.js** for a responsive front-end and **Firebase** for user authentication and database.
- Integrating the **PubMed Central API** to fetch the information and **OpenAI API** to process and summarize.

## Skills

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**Languages:** Python, C++, Javascript, HTML/CSS, Java, SQL

**Frameworks, APIs and Services:** React.js, Node.js, Firebase, MongoDB, Sheets API, Discord API, OpenAI API

**Tools:** Github, Git, VSCode,  $\LaTeX$

## Experience

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### Software Team Lead [🔗](#)

Ottawa, Ontario

FRC Team 8729 - Sparkling Youth Robotics Club

Jun 2023 - Present

- Leading the development of a command based robot in **Java** using **OOP** principles.
- Instructing 19 software members on **version control systems**, **OOP**, wiring, **PIDs** and feed forward/backward.

### Software Team Lead [🔗](#)

Ottawa, Ontario

Vex Team 50226B - Merivale Vex Robotics

Oct 2023 - Present

- Developing autonomous functionality and mechanisms like driving and intake with **C++** and **OOP**.
- Created a custom **gearbox** for a conveyor belt climber.

### Programming Intern [🔗](#)

Remote

STEM-E

Sept 2024 - Present

- Aiding to implement a web application to automate the processing of **1000+ volunteers**.
- Integrated **React.js** with **Node.js** and **Express** to write data to an attendance spreadsheet based on **Firebase** data.
- Following an agile methodology to manage a quality project workflow.

### Coding Circle Instructor

Remote

Auxilium Mentorship

Oct 2024 - Present

- Teaching coding concepts in **Python**, **web development**, and **AI** to a class of **30+ students** in grades 7 to 10.
- Supporting a collaborative learning environment through attentive supervision and instructional materials.

## Awards

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- Best Use of MongoDB Atlas (*Hack the North 11 - Sept 2024*) [🔗](#)
- (Solo) Best Home Track Project (*Lazy Hacks - Dec 2024*) [🔗](#)
- FRC Team 8729 - Division Champion (*FIRST Ontario Provincial Championship Technology - Apr 2024*) [🔗](#)
- Honor Roll Group 4 (*Waterloo Hypatia Mathematical Competition - Apr 2024*) [🔗](#)
- 60/75 on CCC Junior - Distinction (*Canadian Computing Contest - Feb 2023*) [🔗](#)