Tonny Zhao

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 github.com/TheLonelyOtaku315

📍 Montreal, QC, Canada

in linkedin.com/in/tonny-zhao

Skills

Gemini API integration	Agile methodology
Full-stack development	JavaFX development
C++	Java
MongoDB database management	Node.js development
Angular integration	CSS
HTML	TypeScipt
JavaScript	Python
Linux system setup	Microsoft Word
Microsoft Excel	Microsoft PowerPoint
Visual Studio Code IDE	Git

Languages

- English
- French
- Chinese

Education

2023 – 2027
Montreal, Canada

Bachelor of Engineering – Computer Engineering C.Edge
Concordia University
- Member of the Co-operative Education Program (C.Edge).
- *Relevant Courses*: Programming Methodology, Data Structures and Algorithms, Software Process and Practices, Databases, Introduction to Theoretical Computer Science, Computer Graphics

2020 – 2023
Montreal, Canada

DEC – Computer Science and Mathematics
Vanier College
Relevant Courses: Introduction to Programming, Data Structure and Object-Oriented Programming, Program Development in a Graphical Environment, Integrative Project in Computer Science and Mathematics

2015 – 2020
Montreal, Canada

High School Diploma
Calixa-Lavallee High School

Projects

01/2025 – 04/2025

ChatHaven
Angular · Node.js · MongoDB · Git · GitHub
https://github.com/Error-404-Project-W25/Error-404-SOEN341_Project_W25 ⬈
- Built a full-stack group messaging platform with role-based permissions and real-time communication.

- Developed modular UI components (chat log, channel sidebar, etc.) and integrated the **Giphy API**, **LinkPreview API**, **Gemini API**.
- Used **Git** and **GitHub** for version control and collaboration in an Agile team environment.

11/2024 – 12/2024	**Bluetooth Light Controller**

ESP32 · C++

https://github.com/TheLonelyOtaku315/ESP32-LED-Controller ⌝

- Programmed a Bluetooth LED controller using **serial communication** via USB, Bluetooth, and hardware buttons.
- Demonstrated **real-time control** and **multi-interface responsiveness**.

05/2024 – 08/2024	**k-NN Classifier – Final Project**

Java

- Developed a **k-nearest neighbor machine learning model** for medical data classification (569 instances).
- Collaborated with a team and **applied algorithmic optimization strategies**.

01/2023 – 05/2023	**Electricity & Magnetism Simulation**

Java · JavaFX · CSS · Git · GitHub

- Simulated electric fields from point charges and interactive logic gate circuits with a drag-and-drop interface and real-time output.
- Developed the application using **Java**, **JavaFX** for UI, and **CSS** for styling.
- Used **Git** and **GitHub** for version control and collaboration in an Agile team environment.

11/2022 – 12/2022	**RetroPie Gaming Console on Raspberry Pi**

Raspberry Pi · Linux · RetroPie

- Configured emulators, managed ROM libraries, and optimized system for retro gaming.
- Gained experience in **Linux system setup**, **troubleshooting**, and **configuration**.

08/2022 – 12/2022	**Temperature Converter**

Java · JavaFX · CSS

https://github.com/TheLonelyOtaku315/TemperatureConverterVS ⌝

- Built an interactive temperature converter using **JavaFX** as a final course project.
- Designed the user interface with **CSS** and implemented logic for Celsius, Fahrenheit, and Kelvin conversions.
- Led a small team, coordinated development tasks, and ensured on-time project completion.

Professional Experience

05/2022 – 08/2022 Montreal, Canada	**Customer Service Employee at Best Buy**

Best Buy

- Handled customer returns, and online orders ensuring customer satisfaction.
- Managed high stress situations and resolved complaints from customers while maintaining the quality of service.
- Addressed the client's concerns.

2017 – 2019 Montreal, Quebec	**Private Tutoring**

- Provided personalized tutoring in mathematics and French for elementary and high school students.
- Organized educational activities and exercises to enhance student learning.
- Improved students' academic performance, with average grade increases of 15%.