

# Eric Zuo

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## TECHNICAL SKILLS

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**Languages:** JavaScript/TypeScript, HTML/CSS, SQL (Postgres), Java, Python

**Frameworks:** React, Next.js, Node.js, Material UI, Flask, Tailwind, Prisma ORM

**Developer Tools:** Git, Figma, VS Code, Visual Studio, PyCharm, Cloudflare Workers, Insomnia

## EXPERIENCE

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### Web Developer - Freelance

January 2025 – March 2025

*Elvaria*

*Calgary, AB*

- Developed a dynamic website using React, TypeScript, and Node.js, integrating a PostgreSQL database to create a fully functional and aesthetically clean platform.
- Built and implemented a volunteer management portal, reducing time spent managing volunteers by 40%.
- Designed the website's layout and interactions from scratch in Figma, incorporating UI/UX principles such as visual hierarchy, accessibility, and contrast.

### Robotics Engineer

September 2024 – Present

*Vex Robotics*

- Programmed autonomous and driver-control systems in C++, integrating odometry and PID for precision.
- Designed and built the robot, utilizing pneumatics and motors, winning Judges Award at provincials.

### Technical Director - Co-Founder

October 2023 – Present

*Futurlign*

*Calgary, AB*

- Led AI workshops for over 100 students, delivering practical knowledge and hands-on experience with coding.
- Collaborated with a team of 20 individuals to design and create a comprehensive AI curriculum.

## PROJECTS

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### Computing4Charity | TypeScript, React, Node.js, Express, Tailwind, Python, Eel, PostgreSQL

January 2025

- Created a full-stack web application enabling users to mine crypto and redeem points for donations to charities.
- Implemented secure and efficient backend infrastructure, handling user authentication, transaction tracking, and API communication between the crypto-mining client and the web platform.

### LifePod – MiniMedi Hacks 2024 1st Place | TypeScript, React, Node.js, PostgreSQL, CSS

December 2024

- Developed the "LifePod" platform, a medical-oriented web application, using TypeScript, React, and Node.js, and integrated WebSockets to enable real-time communication and data sharing for medical professionals.
- Designed and implemented a system allowing users to generate secure chatrooms and interactive dashboards that control LED indicators on a physical device.
- Integrated PostgreSQL for a scalable backend solution, allowing efficient storage and retrieval of medical data.

### ChangePod – Hack the Change 2024 1st Place | JavaScript, React, Python, Flask

November 2024

- Engineered and Integrated a multi-faceted hardware and software product, streamlining democratic processes by aggregating suggestions and votes into actionable feedback using AI.
- Collaborated in resolving critical backend and hardware issues, including debugging CORS issues and integrating ESP32 and Arduino to ensure smooth communication between the hardware and backend.
- Won 1st place and \$5000 in prize money in a highly competitive university level hackathon.

## EDUCATION

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### Sir Winston Churchill High School

Sep 2023 – June 2026

### The Odin Project

August 2022 – June 2023

*Full Stack JavaScript Path*