EVERETT (YANNING) ZHANG

zhangeverett0219@gmail.com ◇ 📱 778-896-6691 ◇ 🔗 everettzh ◇ 🔗 EverettZh

EDUCATION

University of Waterloo — Dec 2025
Bachelor of Mathematics with Computing Minor — Ontario, Canada

PROFESSIONAL EXPERIENCE

Alertdriving - Software Engineer — May 2023 - Aug 2023
- Developed a React.js app used by **50+** staff across test centers to manage driver appointments, improving scheduling accuracy by ~**15%**.
- Built a library of reusable UI components which cut new feature development time by ~**25%** and improved design consistency across the app.
- Integrated RESTful APIs for live test data synchronization and added client-side validation logic that minimized user input errors and ensured smoother data flow between systems.

eButterfly - Web Developer — Sept 2022 - Dec 2022
- Developed interactive data visualization dashboards in Leaflet.js to map butterfly migration routes, enabling researchers to analyze **20,000+** GPS tracking records through an intuitive interface.
- Automated data cleaning and transformation scripts in Python (pandas, NumPy) to process raw sensor and field data into standardized formats for visualization.
- Collaborated with ecologists and data scientists to integrate real-time data updates, which improved migration tracking accuracy by **18%** and reduced data refresh latency by **40%**.

WizRobotics - Front-end Developer — Jan 2022 - May 2022
- Designed and delivered Python and robotics lessons for over **120** students aged 10–16, introducing programming fundamentals through hands-on projects with Arduino and LEGO Mindstorms.

Perch - Junior Full-stack Developer — May 2021 - Aug 2021
- Led the front-end rebranding using Angular, updating UI components and optimizing page structure and metadata across **15+** pages, which increased organic traffic by **22%** and improved search ranking visibility.

Esihome Technology - Junior Developer — Oct 2020 - May 2021
- Automated portions of the data import process, increasing the efficiency of uploading product data and images by over **700%**, significantly reducing manual work for the operations team.

PROJECTS

AI Academic Consultant — React, Flask, PyTorch
Developed an AI-powered web app to assist University of Waterloo Math students with academic advising, information retrieval, and general inquiries.

- Automated common advising questions, handling **75%** of inquiries and reducing advisor workload by ~**50%** during pilot testing.
- Trained a custom NLP model on **2,000+** course records and built a Flask–React interface for real-time, chat-based guidance.

AI Energy Predictor (HackJunction 5th Place) — JavaScript, Prophet AI
- Developed an AI to predict energy consumption using historical data and weather indices

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C/C++, Java, HTML, CSS, SQL, Racket, Perl, Go
Frameworks: React, NextJS, Node.js, Tailwind CSS, Flask, Django, Angular, VueJS, GraphQL, Figma, Spring
Developer Tools: Docker, AWS, Git, Github, Flask, Bootstrap, Postman, CI/CD, Linux, Azure, Express
Work Status: Canadian Citizen