David Zhao

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EDUCATION

Wilfred Laurier University — Waterloo, ON
Data science — *Sep. 2024 – June 2028*

EXPERIENCE

Software Developer & Data Analytics — July 2025 – Present
Teachtrack AI — *Toronto, ON, Canada*
- Developed data pipelines using Python, SQL, Flask, and HTML for the AI teaching assistant platform
- Built and managed user databases to support data-driven insights on learning behavior.
- Collaborated with engineers and educators to build an AI-powered teaching assistant that delivers personalized recommendations for teachers using statistical and predictive analytics.

Math Tutor — Sep 2024 – Present
Varsity Tutor — *Remote*
- Explained complex mathematical and statistical concepts clearly to students, strengthening foundational knowledge essential for data analysis.
- Developed customized study plans based on students' performance data to optimize outcomes.
- Enhanced problem-solving and communication skills by breaking down abstract theories into practical examples, aiding comprehension and retention.

PROJECTS AND CERTIFICATIONS

Eventfinder | *Python, Flask, React, PostgreSQL, Docker* — Remote
- **Integrated external APIs and real-time data filtering** to display up-to-date event listings with search and category filters for enhanced user experience.
- **Developed a location-based event search platform** that enables users to discover real-time events nearby, leveraging geolocation and external APIs.
- **Improved user engagement through responsive interface design**, ensuring seamless cross-device access with clean and intuitive layouts.

Weather Predictor | *Python, HTML, Panda, NumPy, Dask* — Remote
- **Built a predictive weather forecasting app** that analyzes historical and real-time meteorological data to generate location-specific forecasts.
- **Implemented machine learning models** using tools like and Pandas to improve accuracy of temperature, precipitation, and wind predictions.
- **Enhanced user experience with a responsive web interface**, integrating real-time API data and visualizing forecasts through dynamic charts and clean layouts.

Fitness Tracker | *Python, HTML, React, Typescript, API* — Remote
- **Developed a personalized fitness tracking app** that records and analyzes users' past workouts to support progress tracking and performance insights.
- **Leveraged Supabase for real-time database management**, enabling secure storage and retrieval of user workout history with efficient query handling
- **Implemented client-side state management and dynamic rendering**, ensuring seamless user interaction with historical workout data and real-time updates.

TECHNICAL SKILLS AND CERTIFICATIONS

Certificates: Harvard CS50
Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI
Libraries: pandas, NumPy, Matplotlib