

David Zhong

todavid198@gmail.com | linkedin.com/in/dzhong0 | david1zhong.github.io/

TECHNICAL SKILLS

Languages: Python, C, JavaScript, SQL, PHP

Frameworks: React, Node.js, AWS Lambda/S3, Flask

Tools: AWS, PostgreSQL, Google Cloud, Raspberry Pi, Linux, Git, GitHub Actions, Figma, Sketchup

EDUCATION

University of Guelph

Guelph, ON

Bachelor of Computing (Co-op), Business Minor, AI Specialization

Sep. 2024 - Apr. 2029

PROJECTS

WNBA Health-Informed Betting | Python, PostgreSQL, Pandas, Streamlit

Aug. 2025

- Analyzed and forecasted 600+ player outcomes with **custom predictive models** (logistic regression, cyclical pattern detection) to identify links between menstrual cycle phases and performance
- Automated weekly processing and loading of 200+ player props and game results into PostgreSQL database
- Evaluated prediction accuracy by comparing model forecasts to actual game results, using metrics such as win/loss ratios, average prediction error margins, and profitability to assess and improve model reliability

Bet NFL, Simulated Betting Platform | React, AWS Lambda/S3, Node.js, Tailwind CSS

Jul. 2025

- Designed and developed a real-time NFL betting strategy testing platform enabling users to place simulated bets and automatically log performance data
- Built an AWS Lambda to pull and cache betting data from the DraftKings REST API onto AWS S3 Buckets every 12 hours, updating a dynamic web interface with refreshed odds
- Improved ROI of personal strategy by 1940% through risk-free testing, experimenting with tactics and tracking performance without wagering real funds

Traffic Speed & Camera Alert Device | Raspberry Pi, GPS Module, Python

Jun. 2025

- Designed and implemented a hardware-software system using Raspberry Pi and a USB GPS module to scrape traffic camera locations via GeoJSON, delivering real-time voice alerts to enhance driver situational awareness

EXPERIENCE

Full Stack Developer, Co-op

Jul. 2023 - Aug. 2023

Digital Fire (IT services and IT consulting firm)

Oakville, ON

- On top of regular duties, automated a 200+ item inventory database to streamline tracking of company and client hardware, and developed a Python-integrated Google Sheets interface with a JavaScript/PHP frontend for remote employees to view, search, update, and add items
- Installed Windows using BIOS & wiped hard drives on 20+ client computers, supporting client onboarding

Believe Leadership Chapter Leader

Mar. 2022 - Jun. 2023

Glen Abbey Chapter

Oakville, ON

- Provided 1-to-1 guidance on members' personal project development (including a finalist project), organized end-of-term showcase events, and delivered lesson materials (communication, discipline, etc.)
- Organized alongside administrators and two peers to support student leadership across North America