Runxin Zhuang

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EDUCATION

University of Waterloo, Waterloo (Sep 2025 – Aug 2026)

Master of Engineering, Electrical and Computer Engineering, GPA: 3.9
    Relevant course work: Software Engineering, Neural Networks & Deep Learning, Distributed Systems

University of Toronto, Toronto (Sep 2020 – May 2025)

Honours Bachelor of Science, Computer Science, cGPA: 3.6
    Relevant course work: Algorithms, Data Structures, Operating Systems, Databases, Machine Learning, NLP, Computer Networks, HCI

PROFESSIONAL EXPERIENCE

Xero, Toronto (May 2023–Aug 2024)
Software Engineer in Test Intern

- Developed **E2E and API automated tests** using TypeScript, Playwright, and Jest, improving test coverage and system reliability.
- Led **test scoping and planning** for new features, reducing test flakiness and maintenance overhead.
- Maintained and debugged **CI/CD pipelines in TeamCity**, resolving build failures.
- Implemented **load testing** with k6 to evaluate performance under peak traffic.
- Introduced **MSW-based integration and component testing** using C#, .NET, WireMock, and Docker, reducing dependency on shared environments.

PROJECTS & EXTRACURRICULAR

Multi-Model Food Classifier | Python, scikit-learn, ML
https://github.com/Jasmine-Zhuang/multi-model-food-classifier

- **Built and tuned** Logistic Regression, Naive Bayes, Random Forest, and Neural Network models for multi-class food classification.
- Designed an **end-to-end ML pipeline** including feature engineering, **k-fold cross-validation**, and **hyperparameter tuning**.
- Implemented a **bagging-based ensemble** by averaging one-hot predictions across models, achieving near 90% validation accuracy.

Fitness Club Web Application | React, Django, REST APIs
https://github.com/Jasmine-Zhuang/TFCGymWeb

- Designed and implemented **RESTful APIs with Django** for class management, enrollment, search, filtering, and pagination.
- Integrated a **React frontend with Django backend** to deliver end-to-end features.

SKILLS

Languages: Python, TypeScript, JavaScript, Java, C#, C, HTML, CSS

Web & Backend: React, Node.js, Django, .NET, PostgreSQL

Testing & DevOps: Playwright, Jest, k6, Docker, Linux

ML & Data: scikit-learn, NumPy, pandas