

Tingxu Yuan

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[LinkedIn](#) — [GitHub](#) — [Portfolio](#)

Summary

Math and Computer Science undergraduate with experience in full-stack development, machine learning, software testing, and data analysis. Proven ability to lead projects, improve performance, and deliver scalable solutions.

Education

University of Washington, Seattle, WA *Sep 2023 – Present*
Bachelor of Science in ACMS (Applied Computational and Mathematical Sciences)
GPA: **3.77/4.0**; Dean's List (Multiple Quarters)
Relevant Coursework: Data Structures and Algorithms, Software Development, AI, Advanced Linear Algebra

Skills

Languages: C/C++, Java, Python, JavaScript, TypeScript, SQL, OCaml, Racket, Ruby
Tech: React, Vue, Spring Boot, Node.js, Hardhat, Redis, MongoDB, MySQL, TensorFlow, Ethers.js

Experience

Xiaomi *Software Test Engineer Intern — Jul 2026 – Present*
React 18, TypeScript, Redux Toolkit, webpack 5, Flask, MySQL, RabbitMQ, Qdrant

- Contributing to an AI-driven mobile test automation platform covering case management, multi-device orchestration, and result analysis for Android devices.
- Working across a React 18 + TypeScript frontend and a Flask + MySQL backend with RabbitMQ and Qdrant vector search.

VisionX – Decentralized Energy Marketplace *Full-Stack Lead — Jun 2025 – Aug 2025*
React, Vite, Ethers.js, MetaMask, Hardhat

- Led front-end development for a blockchain energy trading dApp with 4 responsive pages.
- Integrated MetaMask and smart contracts, enabling secure ETH transactions.
- Reduced load time by **35%** through code splitting and lazy loading.
- Authored onboarding documentation, cutting developer setup time by **50%**.

Tianjin Yinhai Software *Full-Stack Intern — Jun 2024 – Sep 2024*
Java, Spring Boot, Vue.js, Redis, JUnit

- Built a hospital management system with role-based access and scheduling.
- Refactored backend services into RESTful microservices, cutting API latency by **30%**.
- Achieved **95%** test coverage using JUnit and Postman.

Mobalytics *Data Science Intern — Jun 2022 – Aug 2022*
Python, Scikit-learn, Pandas, SQL, TensorFlow

- Built a churn prediction model that improved accuracy by **18%**.
- Engineered behavioral features from gameplay logs using SQL and Pandas.

Projects

Generative Adversarial Network (GAN) Research *Jun 2022 – Aug 2022*
Collaborated with MIT researchers and developed GAN techniques that reduced overfitting by **15%**. Co-authored an IEEE conference paper.

Leadership

President, UW China Entrepreneur Network *May 2025 – May 2026*
Lead 60+ members in organizing workshops and networking events with an average of 100+ attendees.

Publication

Liu, Z., Yuan, T., et al. (2021). Recent Advances of GANs. IEEE PPRAI Conference Proceedings.