

Edward Wang

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Professional Experience

Avance Biosciences

Apr 2024 – Present

Software Engineer

Houston, TX

- Led the development of a **.NET**-based laboratory information management system hosted on **Microsoft Azure**
- Established a sample tracking module using **C#, JavaScript**, and **MySQL**, improving throughput by over 100%
- Developed an equipment hub, centralizing data and tasks for over 300 instrument, computer, and network assets
- Engineered an automated FDA-compliant file transfer system for scientific instruments using **Apache NiFi** and **Python**
- Authored SOPs documenting core LIMS modules and workflows to support compliance and onboarding

Projects

VPN Mobile App (WIP)

- Developing an iOS Virtual Private Network app using **React Native** and **Swift**, hosted on **Digital Ocean**
- Implemented RESTful APIs using **Node.js** and **Express** for dynamic VPN configurations for servers and clients
- Integrated **WireGuard** protocol for secure VPN tunneling, enabling IPv4 and IPv6 connections
- Building iOS app functionality to dynamically generate and apply VPN config from backend API

PocketPantry Mobile App

- Collaborated to create a culinary companion app that scans receipts and keeps track of grocery inventory
- Engineered features to add, edit, and delete ingredients using a **PostgreSQL** database via **Supabase**
- Integrated a front-end modal to display newest functionalities in the latest update using **React Native**
- Leveraged SDLC practices and CI/CD pipelines using GitHub to streamline processes and improve productivity

Machine Learning-Based Stock Market Trader

- Designed a machine learning algorithm via **Python** to trade stocks using technical indicators and classification learners
- Utilized bootstrap aggregation to create an ensemble of random tree models, enhancing prediction accuracy
- Implemented SMA, Bollinger Bands, Momentum, Stochastic Oscillator, and MACD indicators
- Conducted in-sample vs out-sample testing, achieving 20% higher returns compared to benchmarks

Education

Georgia Institute of Technology

Jan 2024 – Expected Dec 2026

Master of Science in Computer Science

Coursework: Machine Learning, Natural Language Processing, Operating Systems, Computer Networks, Machine Learning for Trading, Artificial Intelligence for Robotics, AI Ethics

Texas A&M University

Aug 2019 – Aug 2023

Bachelor of Science in Biochemistry, Minors in Computer Science & Psychology

Coursework: Algorithms, Object-Oriented Programming, Data Structures, Database Systems, Data Structures, Calculus 2 & 3

Technical Skills

Programming Languages: Python, C++, C, C#, SQL, TypeScript, JavaScript, HTML, CSS, Java

Tools & Frameworks: .NET, React Native, GitHub, Git, Microsoft Azure, MySQL, PostgreSQL, Figma, VSCode, Visual Studio

Concepts: Software Engineering, Frontend, Backend, Machine Learning