

Edward Jiazhen Tan

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EDUCATION

University of Rochester

Bachelor of Science in Computer Science; Bachelor of Science in Business Information Systems

Rochester, NY

Sep 2021 – May 2025

EXPERIENCE

GTSP Group

Software Developer Intern

Santa Clara, CA

Dec 2024 – Feb 2025

- Implemented hybrid REST APIs and gRPC for real-time audio AI platform, reducing streaming latency by 35%
- Developed frontend transition animations with React and Three.js in collaboration with UI/UX designers, applying performance optimization with lazy loading, reducing bounce rate by 20%
- Enhanced developer documentation infrastructure using Zola static site generator, collaborating with agile development teams to implement automated deployment and rapid documentation updates
- Streamlined GitHub Actions CI/CD pipelines, implementing automated test coverage analysis and improving coverage from 95% to 99%

Peking University

Software Developer Intern

Remote

May 2024 – Aug 2024

- Prototyped 3D model rendering tool in React and WebGL for Computer Vision research through close collaboration with researchers, enabling research outcome visualization at 60+ FPS
- Developed image gallery component in open source codebase with base64 streaming, allowing researchers to trace 3D model origins through source image visualization
- Accelerated 3D data transmission using msgpack compression over WebSocket, achieving 45% bandwidth reduction for large-scale point cloud and mesh datasets

PROJECTS

Meju – Meal Order System

meju.app | github.com/EdwardJiazhenTan/meju

- Designed full-stack meal ordering platform for families and small restaurants using Next.js and PostgreSQL, featuring client/business interfaces, automated procurement planning, and one-click Vercel deployment

LeetTrack – LeetCode Review Platform

leettrack.app | github.com/EdwardJiazhenTan/LeetTrack

- Engineered spaced repetition platform using Next.js, FastAPI, and PostgreSQL, integrating LeetCode GraphQL API for real-time user statistics and automated review scheduling

Hecto – TUI Text Editor

github.com/EdwardJiazhenTan/hecto

- Developed terminal-based text editor from scratch using Rust, implementing cursor movement, file I/O operations, syntax highlighting, and search functionality with raw terminal control

SKILLS

Languages: TypeScript, JavaScript, Rust, Python, Java, SQL, Bash/Shell, HTML/CSS

Frontend & Backend: React, Next.js, FastAPI, Django, Node.js, WebGL, TailwindCSS, REST API, Express.js

Database & Infrastructure: PostgreSQL, MongoDB, Redis, GraphQL, WebSocket, Docker, Kubernetes, Microservices

DevOps & Monitoring: Linux, Git, CI/CD, Jest, AWS (EC2, RDS, S3), Vercel, Nginx, Prometheus, Grafana