ANDREW ZHANG

Software Engineer

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PROFESSIONAL EXPERIENCE

Founding Full-Stack Engineer, Product Owner at Retainly (2025 - Present)

- Build and deploy foundational features for a real estate client-care SaaS, owning UX, data models, and cloud deployment
- Lead product development priorities in alignment with the CEO's direction, balancing technical implementation with business-critical needs.

Automation Software Development Intern at Johnson Controls (2023 - 2024).

- Spearheaded automation migration by converting 50+ test cases from Java-based Selenium to JS-based Cypress on MacOS, **cutting runtime by 50%**, and saving ~6 hours of execution time daily.
- Developed automation testing cases for commercial-level security systems and home automation.

Software Developer Intern at Snappy Innovations (2022)

- Designed, developed, and deployed a cross-platform QR-based takeout ordering system using Dart and Flutter, **driving ~40% adoption** among existing clients to establish a SaaS revenue stream.
- Helped deliver a full-suite restaurant SaaS, from POS to rewards, by building mobile/web applications.

PROJECTS

Retainly — Vendor Booking Platform

- Designed and implemented the system architecture using Next, TypeScript, FastAPI, Postgres, Supabase, Redis, Docker, and AWS S3, deployed using Vercel and Render.
- Built core flows including role-based access control, vendor management, and booking requests.

Personal Website — andrewzhng.com

- Built React site with custom animations and responsive layouts to showcase work, deployed on Vercel.
- Created and integrated live-updating APIs (basketball scores, weather, rankings).

EDUCATION

Bachelor of Computer Science (Honours) at Queen's University (2020 - 2025)

- Graduated with Distinction, Specialization in Software Design with a 12-month internship program.
- Equestrian Varsity; Lead Actor for Extracurricular Drama Productions; Soccer Intramural Champion; Data Analytics/OS Teaching Assistant; Venture Capital Queens Startup Summit Winner.

SKILLS

- JavaScript/React
- TypeScript/Next
- Selenium/Cypress
- Flutter, Java
- Postgres and FastAPI
- Python
- AI and Automation
- AWS Certified
- Sport Climbing
- Marathon/Ironman Training
- Culinary Training
- Event Planning