

Henry Tan

IT Audit & Technology Risk | Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer (4.5+ years) & CISA Candidate transitioning to **IT Audit**. Strong background in **SDLC** security, **IAM**, and **SQL**, with hands-on experience evaluating **system controls**, verifying **data integrity**, and supporting **regulatory compliance**.

EDUCATION

Baruch College, CUNY, New York, NY

Bachelor of Arts in Mathematics | Minor: **Communication Studies** (Cumulative GPA: **3.64**)

Expected May 2027

CERTIFICATIONS

- **Certified Information Systems Auditor (CISA)** — Exam Candidate (**ISACA**) Planned 2026
- **EY (Forage)** — [Technology Risk Virtual Job Simulation](#) March 2026

WORK EXPERIENCE

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Software Engineer (*React, Next.js, TypeScript, Supabase, TailwindCSS, Prisma*)

Oct 2025 - July 2026

- Configured **Postgres Row Level Security (RLS)** and database permissions in Supabase, enforcing strict **tenant data isolation** and preventing unauthorized cross-account access across real-time messaging workflows.
- Implemented automated **application controls** and server-side validation to enforce campaign publishing limits, preventing **subscription tier bypasses** and mitigating revenue leakage.
- Architected **data retention controls** by implementing an **archival and soft-delete workflow** for hospitality entities, preserving **historical audit trails** while securing cascade deletion logic for verified account purges.

Black Spectacles

Software Engineer (*React, TypeScript, Node.js, Material UI, HubSpot, MySQL*)

May 2022 - July 2024

- Led **data completeness and integrity validation** across 50+ business workflows during a legacy JS/PHP to React/Node migration, executing a **phased rollout strategy** to ensure platform stability and zero data loss.
- Executed end-to-end pre-implementation testing and QA across Stripe-integrated checkout workflows, validating dynamic discount rules and **location-based tax calculations** to ensure **billing accuracy** across a **\$6M ARR platform**.
- Enforced **role-based access controls (RBAC)** across multi-tier B2B and B2C accounts, aligning feature access with active subscription plans to prevent **unauthorized access to restricted features**.

Stealth Startup (Digital Health and AI Industry)

Software Engineer (*Python, Flask, JavaScript, React, Node.js*)

Dec 2020 - May 2022

- Engineered a **Node.js streaming backend** to ingest real-time video and interface with serverless **AWS Lambda** processing, enforcing a **zero-retention pipeline** that prevented raw video storage to meet **GDPR/HIPAA privacy compliance**.
- Enforced **Change Management controls** across **weekly Chrome Web Store release cycles**, executing structured **pre-deployment checklists** to ensure environment segregation (Staging vs. Production) and eliminate deployment defects.
- Developed **Python (Flask) REST APIs** for general user services, implementing server-side payload validation and session safeguards to ensure data consistency across **1,000+ active users**.

SKILLS

TECHNICAL & RISK: ITGC | SOC 2 & SOX Controls | IAM | SDLC Security | GDPR & HIPAA | Change Management | Data Integrity

TECHNOLOGIES: AWS | Git | Node.js | Flask | React | Redux | Next.js | Express | TailwindCSS | Prisma | Chrome Extensions

LANGUAGES: SQL | JavaScript | TypeScript | Python | HTML5 | CSS3