

Audrey Dang

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EDUCATION

University of Texas at Austin

Master of Science in Computer Science

Austin, TX

Expected December 2027

University of Houston

Bachelor of Science in Computer Science, Minor in Mathematics. GPA: 3.99

Houston, TX

August 2022 – May 2026

TECHNICAL SKILLS

Languages & Frameworks: Python, TypeScript, JavaScript, Go, Java, SQL, Bash, React, Next.js

Backend & Databases: Node.js, Express, FastAPI, REST APIs, PostgreSQL, MongoDB, Redis

Cloud & Infrastructure: AWS, GCP, Docker, Kubernetes, Kafka, Terraform, Trigger.dev, Browserbase

Testing & Tools: Jest, Pytest, Mocha, Git, GitHub, Jenkins, Linux, Postman

EXPERIENCE

Software Engineer Intern

CodeDay Labs

April 2026 – Present

Houston, TX

- Built a backend observability service in Keyshade using Redis and NestJS for 15K+ daily secret pulls and CLI executions, automating metric aggregation and uploads to **accelerate metrics processing by 30%**.
- Fixed a production race condition in Maxun by serializing navigation flows and hardening async error handling, **eliminating crashes** across repeated concurrency tests involving rapid recording discards.
- Hardened APIs using Node.js, Express, and Mocha, **reducing validation-related failures by 25%** through standardized datetime and duration validation that prevented malformed data from reaching analytics workflows.

Software Engineer Intern

Develop for Good

May 2025 – September 2025

San Francisco, CA

- Developed a content-driven nonprofit website serving 10K+ annual visitors, creating **30+ reusable UI components and CMS schemas** to eliminate duplicated page structures and enable staff-managed content.
- Built a REST API using Node.js and Express to manage event data in PostgreSQL, eliminating duplicate updates and **reducing manual content updates by 60%**.
- Created 10+ responsive page templates with reusable layouts and consistent design patterns, reducing new-page development time by 30% across mobile and desktop.

Software Engineer Intern

FinBud AI

May 2024 – September 2024

Chicago, IL

- Designed Express service boundaries and MongoDB data models for forecasting and backtesting 50+ financial assets, supporting multi-asset analysis and portfolio comparison.
- Wrapped an XGBoost forecasting pipeline behind service-layer APIs, supporting walk-forward evaluation while **keeping model retraining under 2 minutes** on 5-year datasets.
- Added MongoDB-backed caching for high-read ticker search and historical price endpoints, reducing external data fetches by 80% and **cutting monthly API costs by \$110+** while keeping responses ~90 ms.

Computer Science Tutor

University of Houston

August 2023 – May 2026

Houston, TX

- Supported 80+ students in Python and Data Structures through 1:1 and group tutoring, **improving average exam scores by 15%** by breaking down complex concepts, debugging code, and leading targeted review sessions.

PROJECTS

Browser Automation App | *Next.js, PostgreSQL, Stagehand, Browserbase, Trigger.dev*

- Built a collaborative browser automation app with 7 workflow node types, enabling users to orchestrate browser actions, data extraction, email, and AI agents, **reducing automation setup time by 45%**.
- Engineered a durable workflow engine with Trigger.dev supporting dependency-based execution, retries, live updates, and cancellation; reused one Browserbase session per run to reduce workflow latency by 37%.

SwiftCare | *Next.js, TypeScript, Node.js, Express, PostgreSQL, Tailwind CSS, Jest*

- Led a team of 4 to build a real-time clinic queue management system with Next.js, Express, and PostgreSQL, supporting **100+ active queue entries** with appointment scheduling and emergency prioritization.
- Designed REST APIs and Server-Sent Events for real-time queue tracking, **reducing update latency by 40%**.