

Audrey Bolyard

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EDUCATION

The University of Texas at Austin Expected May 2029
Bachelor of Science, Computer Science
Directed Reading Program: Deep Learning (2025); Program Verification with Lean4 (2026)

Austin Community College May 2025
Associate of Science, General Studies in Science

TECHNICAL SKILLS

Python, JavaScript/TypeScript, React, SQL, Git, Figma, Notion

PROJECTS

Gridwork — **Filet crochet pattern editor** May 2026 – Present
Solo project

- Identified a gap between manual tools (pencil/paper, spreadsheets) and dedicated filet crochet software through personal domain expertise; defined a full creation-to-sharing feature set: row-progress editor, yarn estimator calibrated to hook size and weight (metric and imperial), PDF export, and a community gallery with maker profiles, likes, and copies.
- Authored an 8-section beginner guide to reduce onboarding friction and drive engagement for a niche crafting audience.

Meridian — **Marketing strategy simulation engine** April 2026
HackHackGoose 2026

- Originated the concept and designed the product: users describe marketing campaign scenarios in plain text; the system stress-tests variants against autonomous neural-network audience agents and surfaces a ranked strategy comparison.
- Architected the full system across Next.js (streaming, auth, persistence), FastAPI (simulation orchestration), and Supabase; designed typed event schemas for the simulation lifecycle and SSE-based real-time delivery to a live terminal, 3D agent graph, and analytics dashboard.

TutorMatch — **Tutor marketplace** February 2026
Team Lead · WiCS Hacks 2026 — Best Novice Hack

- Scoped and led development of a two-sided marketplace with role-specific dashboards, live chat, JWT authentication, and 5-criteria filtered search (city, zip code, subject, age group, hourly rate) — built across 15 API endpoints, 9 React routes, and 4 MongoDB collections.
- Coordinated a 3-person cross-functional team from zero to all core user flows within a 24-hour deadline; awarded Best Novice Hack at WiCS Hacks 2026.

Manifest My Toyota — **Auto finance calculator** October 2025
Team Lead · HackTX 2025

- Defined product vision for a 3-tier, APR-adjusted credit-risk scoring engine and an animated tarot-card UI translating loan repayments into relatable lifestyle trade-offs, targeting first-time car buyers.
- Directed task distribution across a 4-person team, shipping within 24 hours; demoed to 10 judges and ~150 attendees, earning recognition for UX clarity.

EXPERIENCE

Peer Mentor June 2026 – Present
UT Austin Freshman Research Initiative — High School Research Academy

- Coordinating delivery of a 1-DOF haptic force-feedback device across mechanical, electrical, and embedded workstreams — tracking 20+ components and a cable drive system with 5 custom 3D-printed parts.
- Support 30 high school students in the Computational Materials stream with hands-on guidance across individual research projects and ongoing experiments.

Resident Assistant May 2026 – Present
UT Austin CS Summer Academies

- Coordinated daily check-ins, evening activities, and overnight on-call coverage for 10 students while managing logistics for 60 students across a 12-person staff during week-long CS academies.

Catering Student Assistant October 2025 – May 2026
UT Austin Housing and Dining

- Managed logistics for 12+ events per month serving 20–600+ guests; sole on-site point of contact for select events, handling real-time client adjustments under tight timelines.

Additional experience: Tour Guide (Inner Space Cavern, Jan–May 2024), Lead Cashier (Teriyaki Madness, Jun–Dec 2023).