Lillian Celleri

U.S. Citizen

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Education

University at Buffalo, SUNY **Expected May 2027**

B.S. in Computer Science *Buffalo, NY*

- **Relevant Coursework:** Web Applications, Machine Learning, Algorithms and Complexity, Computer Systems, Experiential Learning and Research

Projects

Curbit | *Swift, React Native, Expo, tRPC, PostgreSQL, Drizzle, Stripe* **Aug. 2026 – Present**

- Designed the PostgreSQL schema and Drizzle migrations behind end-to-end app-blocking schedules, built the tRPC router handling CRUD and recurrence-rule logic, and developed the React Native UI with TanStack Query.
- Designed the frontend and authored a unified stylesheet (layout, color scheme, typography) to keep the UI consistent across pages.
- Implemented end-to-end observability for an Expo/React Native app and Express/tRPC backend using OpenTelemetry, Honeycomb and Sentry, linking mobile and API traces.

NourishHer | *React Native, Expo, Supabase, PostgreSQL, TypeScript* **June 2026 – Present**

- Architected and built a full-stack React Native and Supabase nutrition and cycle-tracking app end-to-end, from PostgreSQL schema design through API layer to production UI.
- Designed a normalized relational schema with many-to-many relationships across nutrients, foods, recipes, and cycle phases; wrote Row Level Security policies enforcing strict per-user isolation of health data.

The Botch List | *Hono, Node.js, TypeScript, SQLite* | Forge Fellowship **Jan. 2025 – May 2025**

- Built a patient review platform for cosmetic surgery providers, aggregating 1,000 providers and up to 5,000 associated reviews from Google Maps, Yelp, and Reddit into a single searchable directory.
- Designed the ingestion pipeline that scrapes, deduplicates, and normalizes provider listings across three sources, with sentiment analysis over consolidated review text.
- Implemented full-text search using SQLite FTS with filtering across provider attributes and sentiment, plus side-by-side provider comparison.

Experience

Decisions, Risk, and Data Analytics in AI **June 2026 – September 2026**

Research Assistant *Buffalo, NY*

- Cleaned and analyzed 6,551 FAA UAS sighting reports (Purdue PURR, 2016–2019), filtering 892 records with missing or implausible altitude values and preparing 4,428 records for predictive modeling.
- Analyzed evasive action rates across altitude bands, airport categories, and states, identifying higher reported evasive action rates at small hubs (6.11%) compared with large hubs (1.15%).
- Developed and evaluated a logistic regression classifier using altitude and airport distance, achieving 97.2% accuracy against a 97.2% majority class baseline and identifying severe class imbalance limitations (0% recall).

Leadership

Forge **Jan. 2025 – Present**

Director of Growth & Community (Aug. 2026 – Present) | Fellow (Jan. 2025 – Aug. 2026) *Buffalo, NY*

- Delivered weekly presentations to the cohort on architecture decisions and implementation progress while building The Botch List from concept to MVP.
- Led growth strategy for a builder community of 30+ members, using events and outreach to increase active participation.

IBM Z Club **Aug. 2026 – Present**

Treasurer *University at Buffalo*

- Manage a $300 per-semester budget covering events, materials, and reimbursements for a 20+ member club, coordinating funding requests with the UB Student Association.
- Organize technical events and workshops introducing students to mainframe systems, enterprise computing, and IBM Z architecture.

Technical Skills

Languages: TypeScript, JavaScript, Python, Java, C, SQL, HTML/CSS
Frameworks & Libraries: React, React Native, Expo, Next.js, Node.js, tRPC, Hono, Drizzle ORM, TanStack Query
Tools & Platforms: Git, Docker, CI/CD, Figma, PostgreSQL, MongoDB
Core Skills: Full-stack Development, Object Oriented Programming, Data Structures & Algorithms, Web Design