Tyler Weber

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PROFESSIONAL SUMMARY

Recent Computer Science graduate with hands-on experience developing software and working with data through professional and academic projects. Experienced building backend applications, working with relational databases, and validating technical systems, with a strong interest in solving problems and improving how systems perform.

EDUCATION:

University of North Carolina at Charlotte - Charlotte, NC **May 2026**
B.S. in Computer Science, Concentration in Data Science **GPA: 3.96**

- **Chancellor's List** (Fall 2023 - Spring 2026)
- Relevant Coursework: Software Engineering, Database Design & Implementation, Backend Application Development, Data Structures & Algorithms, Cloud Computing, Machine Learning

TECHNICAL SKILLS:

Languages: Python, SQL, Java, HTML
Backend & APIs: FastAPI, Node.js, Express, REST APIs, OpenAPI, Swagger UI
Databases: PostgreSQL, MySQL, Prisma, SQLAlchemy
Data & Analytics: Pandas, Scikit-learn, Matplotlib, Excel, Power BI, Tableau
Testing & Development Tools: Pytest, JUnit, Git, Linux
Development Practices: Unit Testing, Data Validation, SDLC, Agile/Sprint Workflows

EXPERIENCE

Data Analyst Intern | Technosylva February 2026 - June 2026

- Owned development of the dashboard component for a customer-facing utility analytics website, building 7 interactive Streamlit views to visualize predicted vs. actual customer outages, statistical performance metrics, and historical trends.
- Developed operational and historical validation functionality spanning 5+ years of outage data across 10–15 geographic districts, enabling users to filter and analyze model performance across locations and time periods.
- Built a model-comparison interface for a 30–50-model environment, allowing users to compare, sort, and filter model statistics while focusing validation on the 2–3 most recent iterations.
- Conducted biweekly dashboard reviews with data scientists to validate graph outputs, identify UI and visualization defects, and implement fixes using Git branches, commits, and merge requests.

PROJECTS:

FlashCut AI Flashcard Generator | GitHub April 2026

- Owned AI integration and database development on a 5-person team building FlashCut, a Chrome extension that generates study materials directly from selected webpage content.
- Integrated Claude AI to support 2 AI-powered workflows, context-aware flashcard generation and passage simplification, and designed a 4-table PostgreSQL schema for users, flashcards, decks, and card-to-deck relationships.

Restaurant Order Management API | GitHub August 2025

- Collaborated on a 4-person Agile team across 2 development sprints to build a FastAPI restaurant-management backend with 31 REST endpoints supporting orders, customers, menu items, ingredients, reviews, and order details.
- Developed backend functionality using FastAPI, MySQL, SQLAlchemy, and Pydantic to support CRUD operations, inventory updates, order tracking, revenue analysis, and promotional-code logic.

STUDENT INVOLVEMENT

Computing & Informatics Learning Community - UNC Charlotte August 2023 - May 2024

- One of 48 students selected for a cohort focused on technical collaboration, networking, and project-based learning in computer science.
- Participated in coding workshops and mentorship sessions emphasizing soft skills and professional growth.