BLAINE COCHENSPARGER

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EDUCATION

Ohio University | Athens, OH **May 2027**

Bachelor of Science in Computer Science **GPA: 3.57 / 4.00**

- **Honors & Awards:** Dean's List Every Semester
- **Certificates:** Project Management

EXPERIENCE

Data Engineer Intern (Python, SQL, dbt, BigQuery, GCP, FastAPI, Claude Code, Dagster, PostgreSQL)

May 2026 – Present

RefinedScience

- Designed, developed, tested, and maintained REST APIs using **FastAPI** and **Python** for an internal data management application, integrating **Auth0**, the company's **authentication and authorization** platform, to secure access to application resources.
- Collaborated with data engineers and software developers to integrate backend services with the frontend, as well as connect to **Snowflake**, **Google Cloud Platform (GCP),** and **BigQuery** to manage user-generated tables and metadata.
- Leveraged **AI-assisted development** to accelerate implementation, debugging, and code modernization while validating outputs through testing, peer-review, and maintaining production-quality engineering standards.
- Modernized legacy ETL pipelines by migrating SQL and Python-based workflows to **dbt**, developing reusable models and macros that improved maintainability and **standardized data** transformations.
- Migrated and validated healthcare data pipelines by performing detailed data reconciliation and **automated QA checks**, contributing to **CI/CD** validation pipelines to ensure parity between legacy and modernized systems.
- Work with **Dagster** and **Github Actions** to help orchestrate various jobs, including testing and keeping our data up-to-date.
- Transition existing tool metadata pipeline from BigQuery to **PostgreSQL** to increase efficiency and ease of use.

PROJECTS

Fitness Tracking Mobile App (React Native, Expo, Javascript, Figma) | GitHub May 2025 – August 2025

- Designed and developed a **cross-platform fitness tracking application using React Native and Expo**, emphasizing an intuitive user experience and streamlined workout logging.
- **Utilized Figma for UI/UX design**, integrated **real-time data entry** features, and **optimized performance** for mobile deployment.
- Implemented a color-coded workout calendar for **visual progress tracking** and quick navigation of workout history.
- **Published all code onto Github** for anyone to test and provide feedback for improvement.

2D Game Engine (C++, SDL2) | GitHub December 2025

- Developed a **cross-platform** 2D game engine using **C++** and SDL2, supporting the creation of **multiple types of 2D games**.
- Implemented **core systems** including rendering, input handling, audio, and collision detection.
- Built a **Pong demo** to showcase engine capabilities and **modular design**.

Movie Picker Database App (SQL, Python, tkinter) | GitHub November 2025 – December 2025

- Created an application using **real-world databases**, where the user can **create an account**, discover movies, locate streaming availability, and submit reviews.
- Utilized **MySQL** and the MySQL Python connector for the core logic of the app.
- Created a simple tkinter **GUI** for user interaction.

Group LLM Platformer Game (Python, Pygame, Google Gemini) January 2025 – May 2025

- **Collaborated on a four-person team** to develop a Python platformer **integrating Google's Gemini API** to generate dynamic NPC dialogue.
- Took initiative in **project management**, assigning roles and **enforcing deadlines** through weekly scrum-style meetings.

SKILLS

- **Languages:** C++, Python, SQL, Java, JavaScript, TypeScript, HTML/CSS
- **Frameworks & Libraries**: React Native, FastAPI, dbt, SDL2, Expo, tkinter
- **Cloud & Databases:** Google Cloud Platform (GCP), BigQuery, MySQL, Snowflake
- **Developer Tools:** Git, Github, Linux, VS Code, IntelliJ, Figma, Godot