

Brady Hanna

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Education

Oregon State University – Corvallis, OR

September 2023 – Current

- Bachelor of Science in Computer Science | Expected Graduation: June 2027 | GPA: 3.98
- Relevant Courses: Data Structures, Algorithms, Software Testing & Lifecycle, Operating Systems, Databases, Web Development

Work Experience

Computer Science Peer Educator | Oregon State University – Corvallis, Oregon

November 2025 – Current

- Assisted 50+ students in understanding core concepts including **data structures**, **algorithms**, and **object-oriented programming**.
- Facilitated tutoring sessions for **C++**, **C**, **Python**, **JavaScript**, and **SQL** to help students debug code, optimize runtime complexity, and improve implementations of common **data structure** and **algorithms**, boosting code maintainability and readability.

Computer Science Learning Assistant | Oregon State University – Corvallis, Oregon

September 2025 – Current

- Assisted instructor in grading 200+ assignments, labs, and exams for **Python** courses focused on **object-oriented programming**.
- Led 50+ office hours and 100+ lab hours, providing support for over 100 students on **OOP** concepts and debugging techniques.

Data Analyst Intern | Wheelcog Consultants – Remote

December 2024 – April 2025

- Performed detailed **data entry** and **vendor analysis** on over 50 companies using **Bonfire** public sector procurement software.
- Designed a data-processing pipeline in **Python** using **NumPy**, **Pandas**, and **Matplotlib** that cleaned, aggregated, and visualized procurement records, generating 20+ **visualizations** that exposed trend patterns and supplier performance metrics for consultants.

Projects

Hika: Social Media Hiking Platform

November 2025

- Engineered a cross-platform gamified hiking application using **React Native**, **NativeWind**, **TypeScript**, and **Expo** for socialization.
- Designed and implemented a **Firebase NoSQL database (Cloud Firestore + Auth)** for real-time user data synchronization.
- Developed a data pipeline ingesting 10,000+ **OpenStreetMap** trails with **Overpass API** to power interactive tracking on **Leaflet**.

Fantasy Football Prediction Model

September 2025

- Engineered a predictive model using **Python libraries NumPy**, **Pandas**, and **scikit-learn** to forecast weekly and yearly fantasy football player performance, processing 20+ seasons of historical data and over 2,500+ NFL player statistics through an **ETL** pipeline.
- Cross-validated **Random Forest**, **Linear Regression**, and **Gradient Boosting** algorithms to reduce prediction error by 12–20%.
- Implemented a **feature-engineering** pipeline that generated 10+ performance metrics increasing predictive stability by 15%.

Chart Creator Application

April 2025

- Built using **SvelteKit/Svelte** and **QuickChart API** to dynamically generate charts and data visualizations for user interactivity.
- Ensured full feature reliability and robust application performance by designing a **GitHub Actions CI/CD pipeline** and 50+ comprehensive tests, including **unit tests**, **integration tests**, and **end-to-end tests** using **Vitest** and **Playwright**.
- Utilized **Agile/Scrum** workflow practices and **Jira** task boards to organize **sprint planning** and **feature implementation**.

Leadership Experience

Phi Delta Theta | Iron Phi | Corvallis, Oregon

September 2023 – Current

- Raised over \$1,000 with the **Live Like Lou Foundation** to fund research seeking a cure for **ALS** through fundraising efforts.
- Supported large-scale chapter philanthropy operations across a 120+ member organization, enhancing outreach and event impact.

Technical Skills

Languages: Python, C, C++, JavaScript, SQL/MySQL, HTML/CSS (Tailwind)

Frameworks/Libraries: Node.js, React, Svelte/SvelteKit, Vite + Vitest, NumPy, Pandas, scikit-learn, Matplotlib, ZeroMQ

Tools & Practices: Git/GitHub, Agile/Scrum, Jira, GitHub Actions, VS Code, CI/CD, Unit Tests, Integration Tests, End-to-End Tests