

# Daniel Coblentz

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## EDUCATION

### Hood College

*Bachelor of Science in Computer Science*

Frederick, MD

August 2023 – May 2026

### Frederick Community College

*Associate's in General studies*

Frederick, MD

August 2021 – May 2023

## EXPERIENCE

### Web Development Intern

*International Help*

May 2024 – August 2024

*Remote*

- Implemented features on a nonprofit website using HTML, CSS, Google Data Studio, to display health worker metrics in various locations around the world by creating an interactive map showing health worker deployment and project outcomes, which increased user engagement on the website by 20%
- Ensured data accuracy and relevance by leading the cleaning, analysis, and visualization of diverse datasets from the nonprofit's database using Excel and custom scripts.
- Streamlined workflow and reduced manual effort by developing custom scripts and functions to automate data processing and enhance data visualization capabilities, managing the process end-to-end.

### Undergraduate Teaching Assistant

*Hood College*

February 2024 – Present

*Frederick, MD*

- Lead discussion sections and office hours for over 40 students, explaining OOP principles, loops, methods and classes using Python and Java.
- Collaborated with Professor Jiang Li in developing course materials, including assignments and exams, ensuring they align with learning objectives and promote student success.
- conducted code reviews on projects and assignments, and provided detailed feedback including best practices for back-end development to help students improve their coding skills.

## PROJECTS

### Event-Flow | *Python, HTML, CSS, JavaScript, SQL, Google Cloud Console, Git*

May 2024 – Present

- Designed and developed a CRUD web application for event management, using Python, SQL, HTML, CSS and JavaScript with secure configuration practices. Implemented essential CRUD operations for robust data storage and retrieval.
- Implemented user authentication, profile management, and organizer permissions features. Created a user-friendly web interface with dedicated routes for displaying event information and adding new ones, combining front-end design with back-end functionality.

### Spell Checker | *Java, Git*

May 2024 – May 2024

- Developed an advanced text processing tool utilizing a Ternary Search Trie (TST) data structure to efficiently tokenize and validate words against a predefined dictionary, optimizing the spell-checking process.
- Implemented the Levenshtein distance algorithm, providing precise alternative suggestions for misspelled words, resulting in a 90 percent accuracy rate in correct suggestions..

### Box Office predictive analysis | *R, Git*

June 2024 – Aug. 2024

- Conducted an in-depth analysis of Hollywood box office data using R, involving data cleaning, visualization, and the application of statistical models to examine domestic gross earnings.
- Developed and evaluated linear regression models to predict domestic gross income, incorporating variables like opening weekend earnings and audience scores, with a focus on differentiating financial outcomes across genres.
- Implemented model diagnostics to evaluate model performance, including residual analysis and simulation of datasets, ensuring robust predictions and insights into Hollywood film earnings.

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, HTML, CSS, JavaScript, SQL, R

**Developer tools:** VS-Code, Eclipse, Google Cloud Platform, IntelliJ, Eclipse, Docker, Figma, Git

**Framework:** GitHub, WordPress, Flask, TensorFlow, PyTorch