

Anika Rajbhandary

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EDUCATION

Carleton College, Northfield, MN, Bachelors in Computer Science

Expected Graduation: June 2026

- Cumulative GPA: 3.86
- National University of Singapore (Exchange Program, August 2024 - December 2024)
- Roy Grow Fellowship for independent research project on healthcare technology in Japan (December 2025)

EXPERIENCE

Data Scientist - Carleton DataSquad

January 2025- PRESENT

- Collaborated with ITS administrators to engineer a **Flask app** file manager using **Python, HTML, CSS, and JS** for Carleton students, faculty, and staff that integrate with existing file management processes in order to support sustainability and storage reduction goals.
- Developed detailed documentation on both developers' and users' end.
- Provided business insight report of storage management to the ITS department using **R Markdown** for cleaning, analyzing, and visualizing complex datasets.

Computer Science Teaching Assistant - Carleton Academic Support Center

March 2025- PRESENT

- Lead biweekly review sessions and 1:1 tutoring for students in fundamental **programming languages design and implementation** concepts.
- Developed and refined instructional materials, including coding exercises and practice worksheets/tests.
- Assisted students in troubleshooting code in **C and Scheme**, improving problem-solving skills, and applying best practices in programming.

Computational and Experimental Chemistry Intern - North Carolina State University

May 2024 - August 2024

- Researched the development of new synthetic methodologies using cyclopropanone molecules in the Lindsay Lab, successfully synthesizing novel α -Oxy cyclopropyl pyridiniums
- **Computationally modeled chemical reactions** using Gaussian software, measuring transition state energies and reduction potentials to determine optimal substituents for reaction pathways.

Biomedical and Health Informatics Intern - Oregon Health & Science University

June 2023 - September 2023

- Designed a **Python (pandas)** data pipeline to serialize bulk-exported Fast Healthcare Interoperability Resources into structured DataFrames, enabling efficient analysis in R.
- Developed an **R-based analytical framework** to assess trends, data completeness, and accuracy, ensuring data integrity
- Researched public APIs of national healthcare databases to assess feasibility for team adoption, documenting technical requirements and limitations.

SKILLS

- **Programming Languages:** Python, R, Java, C, JavaScript
- **Web Development:** HTML, CSS, Flask
- **Databases:** PostgreSQL, SQLite
- **Tools & Software:** React
- **Other:** UI/UX Design Concepts, Microsoft Office 365, LaTeX

PROJECTS

Immersive Google Maps Storytelling Interface | React, CSS

- Brought fictional classics and stories to life through Google 3D Photorealistic Map APIs, creating an immersive experience for users to virtually explore their favorite stories and the world they were built from.

Antibiotic Testing Web Application | Figma

- Collaborated on a team of four with SingHealth, Singapore's largest healthcare group, to prototype a multi-user facing (doctors, internal administration, external administration, lab technicians, pharmacists) antibiotic testing web application in order to streamline workflow for SingHealth's novel antibiotic testing service.