

ANNA GUTOWSKA

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EDUCATION

Rutgers University Honors College, New Brunswick, NJ

August 2019 – May 2023

Bachelor of Science (B.S.), double major in Computer Science and Cognitive Science (GPA: 3.89)

- Honors/Awards: Summa cum laude, Phi Beta Kappa, Honors College Scholar, Dean's List (all semesters).
- Publications: Tawfiq, A., Gutowska, A., Ziff, J., Subramonyam, H. From the CDC to the Public: Analyzing Twitter's Role in Shaping Divisive Health Discussions. *CHI Conference on Human Factors in Computing Systems* (under review).

EXPERIENCE

Research Assistant

September 2021 – Present

Rutgers School of Communication and Information

New Brunswick, New Jersey

- Utilized Twitter and Reddit APIs to collect and clean data to produce co-occurrence networks, sentiment analysis, data visualization, BERTopic modeling, data visualization, and qualitative coding using Python, R, and Tableau.
- Built exponential random graph models (ERGMs) and multi-layered networks for complex social networks in R.
- Investigated how racial and ethnic minority groups access COVID-related information online. Presented this data science research at the Aresty Undergraduate Research Symposium and co-authored a related publication.

Software Engineer

March 2021 – Present

The Percentage Project

New York City, New York

- Collected, analyzed, cleaned, and visualized data through campus-wide surveys of 1,300+ students in tech fields.
- Executed year-by-year comparative inter-school analysis of the survey results using Python.

Chief Technology Officer

March 2021 – Present

Polish Youth Organization

New York City, New York

- Managed the organization's website and Google Suite while troubleshooting technical issues for all 32 officers.
- Created a comprehensive training program and led the onboarding process for new hires.

Peer Tutor

January 2023 – May 2023

Rutgers School of Arts and Sciences Honors Program

New Brunswick, New Jersey

- Tutored undergraduate students one-on-one with a focus on the Introduction to Computer Science course.
- Crafted effective learning plans to simplify introductory computer algorithms and data structures using Java.

President

September 2020 – May 2023

Rutgers Polish Club

New Brunswick, New Jersey

- Led bi-weekly meetings open to students of all cultures averaging around 40 attendees per meeting.
- Increased club membership by 91% resulting in 120 registered Rutgers Polish Club members, a record high.
- Served as Club Representative (2020-2021), Vice President (2021-2022), and finally, President (2022-2023).

Full-Stack Developer Intern

June 2022 – August 2022

Rutgers University Computer Science Department

New Brunswick, New Jersey

- Designed and engineered wireframes of a new grading platform, CodeBench, using JavaScript, React, and CSS.
- Collaborated with You.com to integrate its search engine within the platform now used by 300+ Rutgers students.

Software Engineer Intern

June 2021 – August 2021

Adventure Networks

New York City, New York

- Developed front-end features in the interactive chatroom platform, trychats, using JavaScript, CSS, and HTML.
- Researched NFTs, gpt-3, decentralized networks, blockchain technology, and artificial intelligence.

PROJECTS

Pizza App

- Developed an Android app using JavaFX to develop the GUIs for taking orders, placing, and cancelling them.
- Implemented a changing order total upon altering toppings and changing sizes as well as a list of all store orders.

Bookshelf App

- Programmed an iOS app built using Swift to allow users to store the title, author, and genre of their favorite books.
- Incorporated SQLite as the database engine for storing, editing, adding, and deleting the data of each book.

Portfolio Website

- Built a personal website using JavaScript (JSX), React, Bootstrap, HTML, and CSS to showcase my portfolio.

TECHNICAL SKILLS & CERTIFICATIONS

Programming Languages: Python, Java, R, React, Swift, C, SQL, MATLAB, JavaScript, CSS, HTML.

Certifications & Training: State Certification of Proficiency in Polish as a Foreign Language (B2).