

# ANNA GUTOWSKA

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## EDUCATION

**Rutgers University Honors College, New Brunswick, NJ**

**Aug 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 Honor Society, Greek Scholar Award, Dean's List (all years).

## WORK EXPERIENCE

**Data Scientist, Developer Advocacy**

**June 2024 – Present**

**IBM**

New York, NY

- Published 10+ technical explainers and tutorials on IBM.com specializing in agentic AI and data augmentation.
- Engineered a full-stack server-rendered application using Next.js for redirecting deleted URLs to similar content.
- Leveraged search engine optimization (SEO) tools to consistently rank tutorials on the first page of Google SERPs.

**Research Assistant**

**Sep 2021 – Present**

**Rutgers School of Communication and Information**

New Brunswick, NJ

- Utilized the Twitter API to collect and clean 233,294 CDC-related Tweets to perform sentiment analysis, data visualization, BERTopic modeling, qualitative coding, and co-occurrence networks via 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.

**Full-Stack Developer Intern**

**June 2022– Aug 2022**

**Rutgers Computer Science Department**

New Brunswick, NJ

- Designed and engineered a grading platform, CodeBench, used by 1,000+ Rutgers students in 3 Data Science courses.
- Collaborated with You.com to integrate its search engine UI elements within the platform via React.js and JavaScript.

**Software Engineer Intern**

**June 2021 – Aug 2021**

**Adventure Networks**

New York, NY

- 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.

## VOLUNTEER EXPERIENCE & LEADERSHIP

**Data Engineer**

**Mar 2021 – Present**

**The Percentage Project, Inc.**

New York, NY

- Collected, analyzed, cleaned, and visualized data through campus-wide surveys of 1,300+ students in tech fields.
- Consolidated previously collected survey data from Qualtrics to AWS for all 27 colleges that participated.
- Executed year-by-year comparative inter-school analysis of the survey results using Python to highlight significant shifts in sentiment across gender, major, race, ethnicity, sexual orientation, and immigration status.

**Peer Tutor**

**Jan 2023 – May 2023**

**Rutgers School of Arts and Sciences Honors Program**

New Brunswick, NJ

- Tutored 4 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**

**Sep 2020 – May 2023**

**Rutgers Polish Club**

New Brunswick, NJ

- 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.

## PROJECTS

**EEG Epilepsy Classifier**

- Built and trained an epileptic seizure classifier with a CNN of 72% accuracy and converted to spiking implementation.

**Pizza App**

- Developed an Android app using JavaFX to develop the GUIs for taking orders, placing, and cancelling them.

**Bookshelf App**

- Programmed an iOS app using Swift and SQLite to track the title, author, and genre of books.

## TECHNICAL SKILLS & CERTIFICATIONS

**Technical Skills:** Python, Java, R, React, Swift, C, SQL, MATLAB, JavaScript, CSS, HTML, Linux OS, Microsoft Suite.

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