

# Luke Halko

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[LinkedIn](#) | [GitHub](#) | [Web](#)

## Education

### University of Delaware

Bachelor of Science (GPA: 3.50)

Major: Computer and Information Sciences

Concentration: Artificial Intelligence and Robotics

Newark, DE

College of Engineering

May '23

## Skills

Languages : JavaScript, TypeScript, Python, R, HTML, CSS, C/C++, Java, Lisp

Technologies : React +Hooks, Node.js, Firebase, RShiny, D3.js, Git, Unix, MPI, PySpark

## Related Experience

### Teaching Assistant | CISC482/682 — Intro to Human-Computer Interaction

08/2022 – Current

University of Delaware — Newark, DE

- Graded assignments and provided design critiques.
- Aided students in working with new or unfamiliar technology.
- Held office hours as necessary.

### Undergraduate Research Assistant | Sensify Lab

06/2021 – Current

University of Delaware — Newark, DE

- Developed a user-centered browser extension that guides the user's online news-browsing experience, implementing Chrome's **Manifest V3** platform.
- Used Selenium for **Python** to scrape datasets from the web, which were used to drive our application.
- Analyzed large amounts of data from users to generate research insights.
- Contributed to academic manuscripts and internal/external grant funding applications.
- Helped onboard more undergraduate students into lab projects.

### Data Intern | CompassRed

06/2022 – 09/2022

Summer Internship — Wilmington, DE

- Designed a deduplication and data cleansing pipeline in **Python** for a client project with the Philadelphia Phillies.
- Obtained large datasets from the internet using API endpoints and web scraping tools.
- Developed and analyzed machine learning algorithms to predict violent vs. non-violent crime.

## Projects

### Community Comms

Sensify Lab

- Worked with classic web development tools like **HTML**, **CSS** and **JavaScript** to build a fail-safe system capable of bringing in a constant stream of user browsing data.
- Implemented Chrome's **Manifest V3** platform to develop a browser extension that's safe for use on the web.
- Implemented a personalized data informatics dashboard directly within the browsing environment using **D3.js**.

### Shiny Shot Chart

CompassRed

- Built an interactive **RShiny** web application that generates a custom **D3.js** dashboard to visualize NBA player shooting data.
- Acquired a dataset containing over 5 million rows from the NBA Stats API using Python.
- Informed the company about the disadvantages of RShiny and collaborated on an alternative technology stack for building web apps in R.

## Leadership

### Student Leader | SNF Ithaca Initiative

08/2021 – 05/2022

Joseph R. Biden, Jr. School of Public Policy & Administration

- A student leadership initiative focused on fostering civil discourse and civic engagement on college campuses.
- Developed a formal case study to analyze a recent protest on campus through the lens of civil discourse.
- Presented key takeaways of case study at Harvard's **National Campaign Conference** and UD's **National Student Dialogue**.