Luke Halko

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

Education

University of Delaware   Newark, DE
Bachelor of Science (GPA: **3.50**)   *College of Engineering*
Major: *Computer and Information Sciences*   May '23
Concentration: *Artificial Intelligence and Robotics*

Skills

Languages : JavaScript, TypeScript, Python, R, HTML, CSS, C/C++, Java
Technologies : React, Node.js, Firebase, RShiny, D3.js, Git, Unix, PySpark

Work Experience

Teaching Assistant | *CISC482/682 — Intro to Human-Computer Interaction*   08/2022 – Current
- Graded assignments and provided design critiques.
- Taught students to create basic mobile applications using **Android Studio**.

Undergraduate Research Assistant | *Sensify Lab*   06/2021 – Current
- Developed a **Chrome** browser extension that collects data on the user's online news-browsing experience.
- Built web-scrapers in **Selenium** for Python to obtain crucial datasets that drive our application.
- Designed automated data cleaning and analysis pipelines for use in current and future studies.
- Managed a **Firebase** Realtime Database that stores user data collected by our app.
- Contributed to academic manuscripts and internal/external grant funding applications.

Data Intern | *CompassRed*   06/2022 – 09/2022
- Developed a data cleaning and deduplication pipeline in **Python** for a client project with a major professional sports team.
- Designed and analyzed machine learning algorithms to classify violent vs. non-violent crime.
- Conducted meetings with clients on behalf of the company.

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 an *in-situ* personalized informatics dashboard directly within the browsing environment using **D3.js**.

Shiny Shot Chart | *CompassRed*
- Built an interactive **RShiny** web application that generates a **D3.js** dashboard to visualize NBA player data.
- Acquired a dataset containing over 5 million rows from the NBA Stats API using Python.
- Collaborated with company developers on an alternative technology stack for building web apps in R.

Leadership

Student Leader | *Joseph R. Biden, Jr. School of Public Policy & Administration*   08/2021 – 05/2022
- 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**.