

Julius Hearn

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EDUCATION

BA: Computer Science, Wabash College, Crawfordsville, IN

May 2025

PROFILE

Aspiring Data Scientist with a strong foundation in computer science, data analytics, and user experience. Passionate about leveraging automation and predictive modeling to drive product innovation, improve user engagement, and align business objectives with customer needs. A resilient leader with a track record of collaboration and project management, persistent in solving complex challenges, and adept at quickly learning new technologies and programming languages.

SKILLS:

Python | R | C | SQL | Linux / Unix | GitHub | Object Oriented Programming | Google Office | Virtual Machine | Operating Systems | Jasp | SiteImprove | Sitefinity | Pandas | Microsoft Power BI | Statistical Analysis | AI | Data Science |

PROFESSIONAL EXPERIENCE

Data Analytics Intern

August 2024 – May 2025

Data Mine at Purdue University

- Collaborated with Space ISAC on multi-orbit interference and on-orbit attacks, researching radio frequency (RF) systems and satellite technology.
- Improved existing tools, including Spectrum Viewer Utility (SVU) and Radio Frequency Common Operating Picture (RF COP), through automation and enhancement of interference reporting systems.
- Assisted in creating a ground station interference heat map by scraping news websites, returning a csv file, and then using NLP and AI to sort the data into malicious or benign outages, and finally mapping them

Digital Customer Experience Intern

May 2024 – August 2024

NiSource, Merrillville, IN

- Web content development- managed web content using an enterprise content management system, Sitefinity, for websites used by approximately 4 million customers
- Lead trainer educating 48 cross-functional business partners on how to create ADA (Americans with Disabilities Act) compliant web content
- Built a training program using the ADDIE instructional Design model for PDF and Web Accessibility
- Identified and fixed SEO, ADA, and Quality Assurance issues using the web monitoring tool, SiteImprove, to improve overall scores of NiSource's different websites.

PERSONAL FAVORITE PROJECTS

Housing Market Analysis

Apr 2025 – May 2025

- Conducted in-depth analysis of real estate data using descriptive statistics, hypothesis testing, multivariable regression, and Benford's Law to evaluate factors influencing property prices using Python.
- Built visualizations including correlation heatmaps and boxplots to identify key predictors such as area, bathrooms, and stories, with a regression model achieving an R^2 of 0.57.
- Demonstrated actionable insights for real estate investment decisions by benchmarking price per square foot, detecting anomalies, and quantifying the impact of features on property value.

Operating System Design:

Jan 2024 - May 2024

- Innovated an earlier version of Linux (0.11) by adding features to the code using a virtual machine.
- Added system call, tracked the statistics of process running trajectories, implemented semaphore, addressed mapping and sharing, implemented character display control, and implemented a proc file
- Collaborated with a small team of 3 of my peers and documented our progression, no matter how small or large.

EXTRACURRICULAR AND LEADERSHIP EXPERIENCE

Residential Advisor, Wabash College

August 2022 – May 2024

Membership Chair, Wabash College Malcolm X Institute of Black Studies,

October 2023 – May 2025

Team Captain, Wabash College Track and Field

August 2021 – May 2024