

**University of Illinois at Urbana-Champaign** BS in Statistics & Computer Science, James Scholar Honors GPA: 3.89, Dec 2024  
**Coursework:** Statistical and Applied Machine Learning, Data Structures & Algorithms, Database Systems, Algorithms & Models of Computation, Numerical Methods, Data Science, Statistical Modeling, Linear Algebra, Discrete Structures, Statistics & Probability

## SKILLS

**Programming Languages** Advanced: C++, Python, SQL, Java, JavaScript, C, Wolfram  
Intermediate: MongoDB, Svelte, Git, HTML, LaTeX  
**Libraries and Tools** GitHub, D3.js, Pandas, PyTorch, TensorFlow, OpenCV  
**Communication** English, Spanish (bilingual proficiency), Hindi (professional working proficiency)

## PROFESSIONAL EXPERIENCES

- Finance Management Analyst Intern | Bank of America** 6/2024 - 8/2024
- Analyst intern with Global Loan Portfolio Management under Global Banking and Markets division
  - Analyzing daily P&L for loans, derivatives, and bonds, reconciling breaks, and providing financial support to trading desk
  - Conducted **35K+** dataset portfolio trend analysis to analyze **market trends** and top industry drivers for hedgeable accrual and loan books to be used for quarter-end reports
  - Saved over **150+ working hours** per year by automating daily reporting processes through **VBA**
- House and Senate AI Caucus NAIRR Pilot Hill Demo | White House, NSF, Argonne** 5/2024
- Invited by the National House and Senate AI Caucus to demo **AI @ Edge** computing capabilities within the **National AI Research Resource White House initiative**
  - Educated 60+ Members of Congress, House representatives, and NSF members on Sage AI @ Edge computing research
- Argonne SULI Research Intern & Visiting Student | Argonne National Laboratory** 06/2023 - 5/2024
- Collaborated with **Argonne scientists** to utilize **AI @ Edge** computing to automate Rideshare vehicle detection using **ML**
  - Developed** ML algorithm using **YoloV8** and **PyTorch** and **deployed** rideshare detection edge app to **Chicago** sensors to **publish** count, density, and detection images of rideshare vehicles to be used by transportation and **city officials**
  - Wrote** research paper and presented research at Argonne Research symposium and Computing Division presentation session
- Deployment Field Experience @ Hawai'i | SAGE, Argonne National Laboratory** 10/2023 - 10/2023
- Collaborated with scientists (**Dr. Pete Beckman (Northwestern Argonne Institute of Science and Engineering Co-Director)** and interns in **Hawaii** to **deploy** software-defined sensor in Hilo, Hawai'i and **surveying** sites for edge-computing sensor **installations**
  - Presented seminars at University of Hawai'i regarding **edge computing** applications to benefit local communities in Lahaina
- Data Science (CS107) Course Assistant | UIUC** 01/2023 - Present
- Answered **2000+** questions on data science content as a CA based on **academic performance**, growth, and passion
  - Film & produce** statistics lessons, **assist** students with content, facilitate lab discussions, tutor during office hours and labs
- Video Production for National Science Foundation | Argonne National Laboratory** 06/2023 - 08/2023
- Produced** video for **Sage national cyberinfrastructure** platform to highlight summer internships using Adobe Premiere Pro, shown to the **NSF**, Argonne, and Northwestern (<https://sagecontinuum.org/news/summer-interns>)
- Product Management Team | Northstarre** 02/2022 - 06/2022
- Collaborated with technology office and **founder** for product planning and **roadmap definition**
  - Partnered with **75+** STEM organizations & universities, recruited **1000+** members with **50+** STEM panels, workshops, speakers

## ACADEMIC EXPERIENCES

- AI-driven Science on Supercomputers | Argonne National Laboratory** 02/2024 - 04/2024
- ALCF AI course using **leading-edge supercomputers** to develop and apply AI solutions
  - Collaborate** with DOE scientists to understand fundamentals of large-language models (**LLMs**) and their scientific applications
- Choosing Leadership Mini-Course | University of Chicago Booth School of Business** 10/2021 - 01/2022
- Received personalized UChicago sponsored **invitation** based on academic **merit** and previous **engagement** with university
  - Developed **leadership capital** through sessions on courage, decision-making, capacity, wisdom, and choice

## PROJECTS

- Instructional YouTube Channel** <https://bit.ly/origamiwoo>
- Produced AP/College level **instructional videos** on mathematics, statistics, and technology on YouTube shown to **200+** students.
- AI Model to Detect Fake News**
- Developed AI model to detect fake news buzzwords using **Pandas**, **TfidfVectorizer**, and **Sklearn** libraries via Python
- Software Statistical Advisor** <https://bit.ly/methodmonkey>
- Developed web-based **JavaScript** application to provides guidance to users interested in conducting statistical inference tests
- COVID-19 Statistics** <https://bit.ly/CoviStat>
- Developed web-based **JavaScript** app to **summarize** COVID-19 data to **pertinent** statistics for given locations/times in real time

## ORGANIZATIONS

- James Scholar Honors Program:** James Scholar student 08/2022 - Present
- Open Source at Illinois:** Co-Director 06/2023 - 01/2024