

## EDUCATION

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### University of Illinois Urbana-Champaign (UIUC)

*B.S. in Statistics and Computer Science, Minor in Linguistics and Mathematics* | GPA: 3.9/4.0 Aug. 2022 – May. 2025

**Coursework:** Data Structures, Intro to CS II (C++), Discrete Structures, Data Science Discovery, Linear Algebra with Computational Applications, Intro to Probability and Statistics, Calculus 3

## WORK EXPERIENCE

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### Milliman

*Software Developer Intern*

May 2023 – Aug 2023

- Revamped 10 outdated testing suites with C# and the .NET Core framework to validate the accuracy of forecasts generated through econometric machine learning models
- Generated and validated cashflows of different mortgage deal types by running over **30,000 data points** per deal through economic cashflow calculators, and utilized **PLINQ library's parallelization** to reduce code runtime
- Built sets of testing data through SQL database queries and utilized Newtonsoft to read and deserialize JSON files for model input and expected output

### UIUC CS 124 Honors

*Project Manager and Course Assistant*

Jan. 2023 – May 2023

- Led a group of introductory computer science students to develop a data visualization website by providing lessons and developing project code components in **python, flask, matplotlib, and pandas**
- Held weekly standup meetings to discuss progress and hosted office hours to help students learn **git** for use in their projects

### Comet

*Flight Test Intern*

Sep. 2021 – Dec. 2021

- Participated in user tests following Head Developer's guidelines and wrote detailed reports on user experience with the website
- Contributed to product development and UI by providing critical feedback and thoughtful recommendations
- Collaborated with engineers and other departments to develop effective strategies and test plans

### Shanghai Green Amines

*Website Developer*

Jun. 2021 – Aug. 2021

- Single-handedly coded the responsive company website with **HTML, JavaScript, and W3CSS** while also translating content from Chinese to English
- Employed **photoshop** to develop company logo and appealing visuals for use in the website
- Presented various website designs and layouts to determine effective ways to convey marketing information to customers

## PROJECTS

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### Reddit Misinformation Extractor

May. 2022

- Implemented a machine learning model that identifies COVID-misinformation in Reddit social media posts, which was used for data analysis and research of misinformation transmission on the internet
- Utilized **bag-of-words technique and TFIDF transformers** to modify textual data to train a **support vector machine classifier**, which eventually achieved a **82% accuracy**.
- Wrote a python script that used the **Reddit API** to pull posts from certain subreddits every other day to build a training and analysis data set.

### GeoGenie

Mar. 2023

- Worked with a team of 4 in a **36-hour Hackathon** to develop a **flask website** that used support vector classifiers to predict which country is most suited for a user, based on their input
- Trained and tuned the classifier after cleaning and appending data from different sources using **pandas**
- Utilized **plotly** and the model output to develop a heatmap graph of the world that displayed the probability of how well each country fits a user

## SKILLS & INTERESTS

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**Languages:** C++, Python, C#, Java, Kotlin, HTML/CSS, SQL

**Tools:** Flask, Git, Docker, .Net Core, Visual Studio, Bootstrap, Tailwind CSS, Sci-kit Learn, Pandas, Android Studio

**Interests:** Artificial Intelligence, Educational Technology, Competitive Coding, Data Science, Cooking, Photography