

Education

Cornell University

Expected May 2022

Bachelor of Arts, Double Major: *Information Science and Statistical Science*

Activities: Cornell Sports Analytics | Business Incubator at Cornell

Relevant Coursework:

- Object-Oriented Programming and Data Structures
- Discrete Structures
- Computing Using Python
- Design and Programming for the Web
- Probability Models and Inference
- Statistical Methods II
- Introduction to Data Science
- Linear Algebra

Experience

Cornell CMSX - Software Developer

Aug '20 - Present

TypeScript, React, Redux, MySQL

- CMSX is Cornell's in-house course management system used by 8000 students and faculty every semester to view assignments, write feedback, and post grades
- Shipped fresh features and fixed bugs on the new React frontend user interface
- Created new website for user documentation and project team information

Drives Football - Full-Stack Developer

June '20 - Aug '20

Python, JavaScript, React, Django, Docker, PostgreSQL

- Built startup's website to market its mobile game and showcase proprietary ML model
- Created SPA frontend using React, React Router, Axios, and other modules from NPM
- Developed REST API backend using Django to serve data from AWS RDS instance
- Deployed containerized application on distributed cloud architecture
- Analyzed complex data and created tables using visualization and querying tools

iD Tech Cams - Virtual Instructor

May '20 - Aug '20

Java, C++

- Led instruction in game and app development to students aged 8-16
- Taught fundamental computer science concepts including primitive types, operators, conditional statements, loops, and object-oriented programming
- Created daily lesson plans and guided students through developing their own functioning projects

Lincoln Financial Group - Actuarial Intern

Jul '18 - Aug '18

C++

- Redeveloped stochastic pricing index modeling tool in C++ by translating from VBA codebase
- Reduced projection run-time from 1 day for 10 scenarios to 1 hour for 2000 scenarios

Leadership

Cornell Sports Analytics - Co-Founder, Executive Board Member

Dec '19 - Present

- Established new project-driven club on campus where members research sports analytics, practice statistical analysis, and learn about applied data science
- Facilitated communication between 35 members to host professional, social, and educational events

Projects [\[github.com/jzhr\]](https://github.com/jzhr)

Sorting Visualizer

React, Redux, Material-UI

Developed web app to visualize various sorting algorithms in action. Implemented Selection, Insertion, Bubble, Merge, and Quick Sort

Turbo Typer

MongoDB, Express, React, Node

Developed web app to test and train users' typing speeds. Calculates characters per minute, words per minute, and accuracy while maintaining global leaderboard

Skills

Programming Java, Python, JavaScript, C++, HTML5/CSS3, R, SQL

Technologies Git, AWS, React, Redux, Node, Django, Docker, Pandas, NumPy, Scikit-learn