

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, Project Manager

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

COVID-19 Malicious Domains

Python, Pandas, NumPy, Scikit-learn

Explored datasets from JHU's CSSE and ProPrivacy to develop a statistical analysis of the outbreak of COVID-19 and related malicious online activity

Skills

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

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