

Allen Zheng

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Education

Purdue University, West Lafayette, IN

Major: Data Visualization, Web Programming & Design | **Minor:** Statistics

GPA: 3.44 / 4.00

Graduation: May 2022

Employment

Undergraduate Research – Byrd Vis Lab

- Executed data visualization techniques by creating a dashboard using Python libraries (NumPy, Pandas, Matplotlib) to highlight the unequal distribution of resources and opportunity for areas in Lafayette
- Developed a website to automate data analysis processes for an undergraduate course
- Co-authored a published research paper analyzing the effectiveness of worksheets designed to introduce students to the data visualization process
 - Fall 2019 – Present

Techpoint SOS Challenge

- Created an innovative solution to assist nonprofits in Indianapolis
- Participated on a multi-disciplinary team and mentored by industry professionals to create a solution for the challenges faced by the nonprofit industry during the COVID-19 pandemic
 - June – July 2020
- Developed a mobile app and conducted the corresponding business and market analysis to allow farmers to exchange small amounts of produce
- Received a \$5000 prize for being nominated the best agriculture industry solution in the challenge
 - June – July 2021

Activities

Frontiers In Education (FIE) 2020 Sweden Conference

- Developed research paper analyzing usefulness of worksheets created in helping students generate meaningful topics about research questions
- Accepted paper for virtual conference at <https://www.fie2020.org/abstracts-and-papers/> titled ‘Students’ Perception of a Method for Identifying Topics for Research Questions’

Undergraduate Research Society of Purdue (UGRSP) Liaison

- Assist undergraduate researchers in learning about research, academic, and networking opportunities
- Lead students in professional development events involving topics such as resume writing and interviewing

Hack The Future Club – Multimedia Officer

- Spearheaded the design of posters/logos for a new web/software development club at Purdue
- Collaborated with team board by interviewing for recruitment of members and development of the club

Data Mine Learning Community

- Engaged in learning community courses, attended events/talks about big data and career development, and connected with like-minded students to work on projects in R, SQL, JavaScript

Skills

Proficient: Python | R | SQL | Excel | Tableau | HTML | CSS | Javascript | Adobe (InDesign, Illustrator)

Experienced: d3.js | PHP | jQuery | Java | C++