

Kyle Zheng

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Education

Purdue University, West Lafayette, IN

May 2023

- Bachelor of Science in Computer Science and Mathematics, Minor in Linguistics
 - Relevant Coursework: Analysis of Algorithms, Systems Programming, Data Structures & Algorithms, Competitive Programming,
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Experience

Purdue Cognition and Learning Laboratory - Web Programmer

May 2020 - Present

- Collaborate with psychology researchers to develop custom online experiments using Javascript libraries. Create reusable experiment plugins to streamline future experiments.
 - Host experiments and maintain data using MongoDB, NGINX, Node.js and a custom data frontend
 - Set up lab website and documentation to maintain knowledge of lab programming procedures
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Projects

Sentivents - Boilermake 8 Hackathon

Jan 2021

- Collaborated on a mood tracker app based on the open source DeepMoji sentiment analysis model.
- I worked on transforming and presenting emoji sentiment data using React Native chart libraries. Used breakdowns of positive, neutral, and negative sentiment to estimate and graph relative mood.

FarmAssist - 1st at Purdue AITP Computing Day John Deere Challenge

Oct 2020

- Collaborated on web-based dashboard and combine harvester simulator for online data
- Used Leaflet.js and Chart.js libraries to create appealing data visualizations based on maps and geographical data.

Movielo - Personal Project

Mar 2020

- Created a web app that allows users to rank movies using one-on-one comparisons and the Elo rating algorithm.
- Frontend implemented using React and Material UI. Movie data sourced using The Movie Database (TMDb) API. Movie ratings updated in realtime using Firebase Firestore and Functions.

Purdue Buildings - 1st Place at Purdue Hello World Hackathon

Sept 2019

- Collaborate on indoor navigation web app using public Purdue floorplans
 - Helped convert publicly available floorplans into graph structure for pathfinding algorithms and created tool to automate converting additional floorplans using Leaflet.js library
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Activities

Residence Hall Association - Representative in Residence Hall Senate

Sept 2019

- Collaborate with all residence halls to solve issues, host events, and engage with students