

Kyle Zheng

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Education

Purdue University, *West Lafayette, IN*

May 2023

- Bachelor of Science in Computer Science and Mathematics GPA: 3.77/4.00
 - 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

- Develop custom programs and online experiments for psychology researchers
- Manage experiment data using jsPsych, MongoDB, Node.js, and a custom Angular frontend
- Revitalize outdated programs and websites by updating codebase and adding new features
- Created a documentation website to preserve knowledge and help onboard new members

LifeOmic - *Software Engineer Intern*

May 2021 - August 2021

- Worked with designers to create user interfaces (React) using feedback-based iteration
 - Prototyped insightful data visualizations for work-in-progress transactions feature
 - Collaborated with team to design and implement new transactions feature and ultimately presented interface for transactions management and history to stakeholders
 - Ensured code quality and stability by writing unit tests and end-to-end UI tests across multiple projects using Jest, Enzyme, Testing Library, Cypress, and Nightwatch
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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.

Purdue Buildings - *1st Place at Purdue Hello World Hackathon*

Sept 2019

- Collaborated 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