Kyle Zheng

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Education

Purdue University, *West Lafayette, IN*   *May 2023*

- Bachelor of Science in Computer Science and Mathematics   GPA: 3.75/4.00
- Relevant Coursework: *Data Structures & Algorithms, Linear Algebra, Numerical Methods, Systems Programming, Operating Systems, Computer Networks*

Experience

The Data Mine, Purdue University - *Undergraduate Data Science Researcher*   *Aug 2021 - Present*

- Collaborate with ATOM Consortium to compare different drug discovery predictive learning models
- Use ATOM software pipeline to curate chemical data and process and optimize many models quickly
- Provide feedback to improve documentation and streamline model-building process

LifeOmic - *Software Engineer Intern*   *May 2021 - August 2021*

- Prototyped insightful data visualizations to improve existing product experiences
- Worked with team to design and implement new transactions feature
- Created and presented interface (React) for transactions management and history to stakeholders
- Ensured code quality and stability by writing unit tests and end-to-end UI tests (Jest, Cypress)

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
- Document, update, and build requested features for websites and programs

Projects

Sentivents - *Boilermake 8 Hackathon*   *Jan 2021*

- Presented a mood tracker app based on the open source DeepMoji sentiment analysis model
- Transform emoji sentiment data into effective visualizations using React Native chart libraries

FarmAssist - *1st at Purdue AITP Computing Day John Deere Challenge*   *Oct 2020*

- Leveraged teamwork to build a web-based dashboard to analyze combine harvester data in 7 hours
- Animated chart and data views for real-time playback of combine harvester performance (Chart.js)
- Provided simulated satellite view based on maps and geographical data (Leaflet.js)

Purdue Buildings - *1st Place at Purdue Hello World Hackathon*   *Sept 2019*

- Connected with random teammates and completed a indoor navigation web app based on floor plans
- Converted publicly available floor plans into graph structure for pathfinding algorithms
- Developed tool to automate converting additional floorplans using Leaflet.js with spare time