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, Data Science, Linear Algebra, Numerical Methods

Experience

ATOM Consortium - Purdue Data Mine Corporate Partners *Aug 2021 - Present*

- Aim to compare different drug discovery predictive machine learning models and find ideal process
- Used ATOM software pipeline to curate chemical data and process and optimize many models quickly
- Provide feedback to improve documentation, streamline model-building process, and reduce friction points

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

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*

- 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