Yibo He

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EDUCATION

University of Rochester   **Rochester, NY**
Bachelor of Science in Computer Science   *Expected May 2023*
Minor in Philosophy
- GPA: 3.58 out of 4.0
- Campus Activities: Event Chair at Golf Club, Undergraduate Philosophy Council.

WORK EXPERIENCE

Adobe   **Remote**
Experience Develop Intern (Prototyping)   *Summer 2022*
- Prototyped a web based navigation and asset management system for a future vision of Creative Cloud.
- Delivered 8 variations of the prototype and helped designers answering key user research questions.
- Improved usability by bringing rich, modern UX interfaces with drag and drop APIs and SVG animations.
- Architectured the codebase in MVC; managed the application's state with Recoil.js and Typescript.

Wave Learning Festival   **Remote**
Web Developer   *Summer 2021*
- Developed a 4 ranking methods course matching module(NodeJS) to provide 2500+ students seminars.
- Redesigned the Past Speakers page with Styled-Component to match style consistency across platforms.
- Created data report charts with R and presented to the Operation team for monthly strategic planning.

RESEARCH PROJECTS

University of Rochester - Philosophy Department   **Rochester, NY**
Argument Virtualizer   *September 2021 – Present*
- Built a full stack application with JS, React and GraphQL to virtualize text into a mind map chart.
- Managed app states through Recoil to achieve responsive rendering for charts with over 500 nodes.
- Authored React style with Styled-Component for performant, reusable, and dynamic styling.

University of Rochester - Department of Computer Science   **Rochester, NY**
Feature Selection with Approximate Query Processing   *June 2021 – August 2021*
- Tested sampling strategies for SQL JOIN to scale feature selection in relational databases.
- Applied the Upper Confidence Bounds algorithm to control sampling waste under a constant portion.
- Prototyped the experiment using Python, Pandas, Scipy and Jupyter Notebook.

INDEPENDENT AND COURSE PROJECTS

Twitter Clone   *Summer 2021*
- Built a full stack social media website with JS, React to let users post, like, and comment on tweets.
- Created server APIs with Apollo GraphQL and deployed server-side code to Heroku.
- Utilized JWT for authentications and maintained application data to MongoDB.
- Styled the website with Semantic UI (a CSS framework) to reduce source code size by 30%.

Regular Expression Compiler   *Spring 2021*
- Built two regex parsers in C with recursive descent parsing and table-driven parsing techniques.
- Implemented deterministic and non-deterministic finite automata that recognize any given input strings matching under the designed pattern.

SKILLS AND HABITS

- Proficient Languages: JavaScript, CSS, Python, Java, SASS, GraphQL, React, Recoil, Styled-Component, Git
- Knowledgeable Languages: C, R, SQL Pandas, NodeJS, Express, Apollo, JWT, Postman, Semantic-UI
- Habits: Avid Badminton Player, Socratic Thinker, Origami Artist, Family Cook