Yuke Zheng

2768 Richmond Rd. Beachwood, OH 44122 • yzheng1998@gmail.com • 216-702-2460
GitHub: github.com/yzheng1998 **Portfolio:** https://tinyurl.com/YukeDataVizPortfolio

Education

HARVARD UNIVERSITY   Cambridge, MA
A.B. in Computer Science; History of Art and Architecture – GPA: 3.89/4.0   May 2021
Relevant Coursework: Data Structures and Algorithms, Statistics, Data Analytics, Architecture Studio

Technical Background

Programming Languages: JavaScript, Python, C/C++, Java
Skills: React, HTML5/CSS3, D3, Node.js Firebase, Data Science, Rhino, Tableau, Adobe Creative Suite

Experience

City Science Research Group—MIT Media Lab   Cambridge, MA
Front-End Engineer and Researcher (JavaScript)   January 2020 – Present
- Managing front-end development for the CityScope project, an interactive urban simulation tool
- Built out a crucial client-facing feature to save and load custom simulation scenarios
- Improving code stability and readability by refactoring front-end, redesigning file structure, and migrating code from class to functional components with React Hooks

Arcturus International   (Virtual) Somerville, MA
Front-End Software Engineer Intern (JavaScript/TypeScript)   June 2020 – August 2020
- Designed advanced mapping visualizations and a safe-navigation routing tool for a React PWA that allows users to contribute to and visualize spatial crime analytics in real time
- Improved app interactivity and animation speed by 10x by migrating front-end code to Deck.gl

Civic Data Design Lab   Cambridge, MA
Front-End Engineer and Researcher (JavaScript, Python)   January 2020 – August 2020
- Collected and analyzed data from 7 tourism websites/APIs to predict relative tourism levels by neighborhood in Venice in a Harvard/MIT-funded study on the impacts of tourism on urban life
- Developed an interactive data visualization tool using React, Deck.gl and Mapbox for visualizing demographic and urban trends in Venice, published in an academic blog and pending publication in several leading urban magazines

Give Essential   (Virtual) Cambridge, MA
Full-Stack Software Engineer (JavaScript)   May 2020 – June 2020
- Designed and developed a NoSQL backend using Cloud Firestore, Express, and Node.js to manage user accounts and donation requests/submissions
- Wrote an efficient matching algorithm to match donors with essential workers based on user selections, which has matched over 5,000 donations
- Built the front-end of the website using React and Styled-Components

Harvard Student Agencies DEV   Cambridge, MA
Project Manager & Lead Front-End Software Engineer (JavaScript)   January 2018 – May 2019
- Managed and mentored a team of 5 engineers and 1 designer on 4 web/mobile development projects using agile methodology, leading projects that generated over $50,000 in revenue
- Gained skills in Node.js, React.js, Express, HTML5/CSS3, Webpack, and other developer tools
- Spearheaded company-wide unit, integration, and end-to-end testing initiatives using Jest
- Participated in over 100 code reviews

Interests: Travel, Architecture, Cities, Chinese Culture, Economics, Philosophy, Sustainability