karen tu

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education

Sc.B, Computer Science **GPA: 3.83**
Brown University **May 2020**

relevant courses: algorithms, discrete math, computer systems, computational biology, honors engineering, statistics, UI/UX, data structures and OOP, functional programming, genetics

experience

Software Intern | Q2Q Health **Summer 2018**

- Designed and prototyped a mobile app using JavaScript, React Native, and AdobeXD aimed at improving understanding of medical values with the goal of leveraging data visualization to improve medical outcomes

Undergraduate TA | CS18 **Jan - May 2018**

- Developed projects, held weekly TA hours, and graded for Integrated Intro to CS
- Developed technical communication and long-term project management skills

Logistics Lead | CS for Social Change **2017-Present**

- Collaborated with a team of students to create a new organization within the CS Dept. looking to build a community of students with an interest in working with humanitarian organizations and engage in conversations about the social impacts of technology

CS Health and Wellness Advocate **2017-Present**

- Worked with Dept. leaders to develop a Health and Wellness Representative initiative aimed at promoting mental and physical health in CS

technical skills

- Java
- C
- Python
- MatLab
- React Native
- Scala
- R
- OCaml
- JavaScript/HTML/CSS
- React

projects

gaggle **hack@brown 2018**

- Built a web application using React and Python designed to help students find study buddies who are working nearby

guizilla **cs18 2017**

- Pair-programmed a server supporting Search/PageRank, links, and, forms in Scala
- Built a JavaFX GUI web browser with HTML rendering using sockets and reflection

mappable **yhack 2017**

- Created a web-app using React/Javascript with a Python backend that mapped news data to location with Google Maps API

shell **cs33 2017**

- Created a Unix shell using C including parsing command line arguments, I/O redirection, and signal processing

research

Stanford School of Medicine **2014-17**

- Performed differential gene expression analysis to find potential targets for medication and therapy
- Used R to perform exploratory analysis on Sanger sequencing in tumor study

community engagement

Brown Outdoor Leadership Training **2017-18**

- Coordinated preparation for 200-person backpacking trip in the White Mountains including medical, technical, and leadership training

Volunteer EMT | Brown EMS **2017-Present**

- Volunteered as a certified Emergency Medical Technician to provide free pre-hospital care to the Brown community

interests

breakdancing • magnetic fridge poetry • podcasts • backpacking