

# Lizzy Wang

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I am a 3rd year EECS student from UC Berkeley passionate about software development, particularly frontend and UI/UX, looking for a software internship in Summer 2023. I have completed large scale projects both individually, professionally and in a group, along with software and hardware design (design framework, UI/UX design). I am open to remote work.

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## Education

University of California, Berkeley

Aug 2020 - May 2024

- **Major:** Electrical Engineering and Computer Science (GPA: 3.98/4)
- **Intended certification:** Berkeley Certificate in Design and Innovation, minor in Data Science
- **Computer Science coursework:** Design of Computer Programmes, Data Structures and Algorithms, Operating Systems, Intro to AI, Intro to ML, Efficient Algorithms and Intractable Problems, Full Stack Web Dev, Intro to Database Systems

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## Projects and Work Experience

Circles.Life Labs Software Engineering Intern - Web Frontend & UI/UX Design

May - Aug 2022

- Designed and implemented a Tableau-like UI for a data analytics site that increased usability and intuitiveness by 40%
- Refactored existing sites using new designs and added new React components that doubled user clickthrough rate
- Familiarized myself with frameworks like Javascript, Typescript and React, and libraries including charts, tables and maps
- Designed a dashboard and delivery flow on Figma following research and User Testing that improved ease of use by 70%

Pacman - Python

2022

- Designed search functions and game strategies for Pacman, modeled as an adversarial and stochastic search problem
- Created search functions with admissible and consistent heuristics to search 70% faster than with a uniform cost search
- Incorporated higher order functions to create various game agents, like minimax and expectimax agents, and develop strategies in evaluation functions to result in a 10/10 win rate with >1000 average score

Gitlet - Java

2021

- Developed a version control system that mimics Git, including init, add, remove, commit, branching, log, merging
- Maintains a repository that stores serialized and encrypted files with SHA1 hashes in order to save and restore files, maintain and view backup histories, create multiple branches and merge different versions of files
- Stores data in data structures such as Hashmaps and Hashtrees to conduct breadth first traversals for data in linear time

RoboCup Asia Pacific

CoSpace Rescue Head Judge - 2017

<https://robocup.org/>

CoSpace OnStage Organizing Committee Member - 2018, 2019, 2021

- Lead team of 10 local volunteers as a head judge to manage the CoSpace Rescue league at RoboCup Asia Pacific held in Bangkok, Thailand (2017) and Dubai, UAE (2018), with more than 200 teams from 30 countries
- Utilized logic and programming knowledge to accurately score teams as the final decision maker in the league
- Conducted technical interviews on robotic hardware and software like intelligent autonomous systems and algorithms
- Acted as a bridge between >50 people, including young participants, foreign mentors, the local volunteers and the organizing committee to settle disputes and provide an enjoyable competition experience for all

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## Awards

- RoboCup Singapore Distinguished Service Award (2022)
- Singapore Edusave Award for Achievement (2019)
- Singapore Edusave Award for Good Leadership and Service (2019)
- Academic Excellence Award (2019)
- Singapore Ministry of Home Affairs National Criminal Behavioural Analysis Competition - 2nd Place (2019)
- Singapore National Reading Day Video Challenge - 1st Place (2018)
- Odyssey of the Mind Singapore Nationals - 1st Place, World Finals - Top 12 (2017)
- RoboCup Singapore Open OnStage League - 2nd Place (2017)
- RoboCup Singapore Open OnStage League - 1st Place, International Championship - Top 10 (2016)
- Raffles Girls' School Colours Excellence Award for Outstanding Performance and Leadership (2016, 2017)

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## Skills

- **Software:** Python, Java, Scheme, SQL, Git, HTML/CSS/Javascript, Node.js, React, [experience with] Typescript, Unity
- **Hardware:** Robotics, Intelligent systems, Control
- **Design:** Design framework, high/low fidelity prototyping, UI/UX, Adobe Photoshop, Illustrator, Premiere Pro, Figma