

Justin (Jieyang) Wu

860-816-2833 | jwu25@berkeley.edu | [Linkedin](#) | [Github](#) | [Personal Website](#)

EDUCATION

University of California, Berkeley

Expected: May. 2024

B.A. in Computer Science | GPA: 3.7/4.0

- **Coursework:** Structure of Computer Programs, Data Structures and Algorithms, Probability and Random Processes, Discrete Math, Signals and Systems, Linear Algebra and Circuits, Number Theory, Linux System Administration, Cryptography
- **Activities:** Computer Science Undergraduate Association (CSUA), Cal Hacks, Pioneers in Engineering

PROJECTS

BYOW | Java

Aug. 2022

- Developed a **game engine** to generate pseudo-random, interactive world for a **dungeon-like game**
- Implemented **A* algorithm** and **minimum spanning tree** for finding the shortest path between a player and target on the map
- Integrated a replay feature using **serialization** to persist generated worlds and reload every user input

Gitlet | Java

Jul. 2022

- Developed a **version control system** mirroring Git using Java
- Designed abstract data structures to support complex functionalities such as **file serialization** and optimizing **big O runtimes**
- Performed **unit and integration testing** using the JUnit testing framework

Scheme Interpreter | Python, Lisp

Apr. 2022

- Built a **lisp interpreter** in Python using a top-down parser
- **Enhanced space and time complexity** using trampolining and tail recursion
- Realized major functionalities such as conditional statements, user defined methods, and macros through **syntactical parsing and analysis**

EXPERIENCE

Berkeley One IT

Jul. 2022 – Present

Web Accessibility Engineer

- Performed **accessibility audits** based on **WCAG** standards using tools such as SiteImprove
- Completed training programs covering web accessibility, PDF accessibility, and **SEO optimization**
- Carried out **solutions** to web accessibility issues using the Open Berkeley toolset

Blum Center for Developing Economies

Jul. 2022 – Present

Web Developer

- Redesigned and maintained websites for [UC Berkeley Master of Development Engineering](#) and [Native FEWS Alliance](#) using **CSS, HTML, PHP, and WordPress**
- Integrated websites with various backend platforms such as **Mailchimp**
- Maintained web security by installing **SSL certificates**

UC Berkeley Electrical Engineering and Computer Science (EECS)

Jan. 2022 – Jul. 2022

Academic Intern

- Facilitated and guided weekly lab and discussion sessions for CS 61A and CS 10, two of the **largest** introductory CS class at Berkeley of over **1500 students** combined
- Prepared mini lectures explaining conceptual questions related to **algorithmic complexity, object oriented programming, and code optimization**
- Organized weekly **project workshops** and hosted **office hours** for 20+ students

TECHNICAL SKILLS

Languages: Java, Python, SQL (Postgres), JavaScript, HTML/CSS, C, C++, R, Scheme

Frameworks: React, Node.js, Flask, JUnit, WordPress

Developer Tools: Git, Docker, Kubernetes, Google Cloud Platform, AWS, PyCharm, IntelliJ, MongoDB, RStudio

Libraries: pandas, NumPy, Matplotlib, Seaborn, TensorFlow