

Michael Wu

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EDUCATION

University of California, Berkeley

Berkeley, CA

B.E. in Electrical Engineering and Computer Science, B.S. in Business Administration

Expected May 2024

- **GPA:** 3.93
- **Relevant Coursework:** Algorithms, Data Structures, Computer Architecture, Machine Learning, AI, Data Science, Discrete Math, Probability and Statistics, Stochastic Processes, Multivariable Calculus

EXPERIENCE

Teaching Assistant (Tutor) - CS 61B, Data Structures

Aug. 2022 - Present

UC Berkeley EECS Department

Berkeley, CA

- Teach discussion sections and host office hours for Berkeley's Data Structures course (1500+ students)
- Record walk-through homework "getting started" and past exam walk through videos
- Design problems for labs, proofread discussion worksheets, and test-solve and grade exams

Undergraduate Research Assistant

Jan. 2023 - Present

Algorithms & Computing for Education (ACE) Lab

Berkeley, CA

- Work in a team of 4 to create computer-generation of questions to enable randomization of questions for exams
- Develop machine-gradable assessments that address learning goals which arise in typical CS courses
- Rigorously evaluate assessments using methods of HCI and education research through formal pilot studies

Co-founder / CEO

Jul. 2022 - Aug. 2022

AirOver

Porto, PT

- Led an international team of 5 in creating a online travel agency that specialized in extended layovers so travelers can explore more cities for less cost as a part of the 2022 European Innovation Academy (EIA)
- Designed and developed flight search software and website from start to finish with 1000+ unique users
- Won the grand prize for EIA out of 500+ participants and invited to interview to join 500 Startups

PROJECTS

Computer Vision Lecture Slides Mapper | *Python, OpenCV*

Dec. 2022

- Built a web application to map lecture slides to the corresponding timestamp in a recorded video
- Used OpenCV to image match between lecture slides and key frames from the video through SIFT
- Combined image processing, optical character recognition (OCR), and set matching to achieve 95% accuracy

Gitlet | *Java, Git*

Oct. 2022

- Created light-weight clone of Git, complete with init, add, commit, branch, merge, log, reset, etc.
- Implemented serialization of files to enable persistence over time

Flight Search Software | *Python, HTML/CSS, JS, Flask*

Jul. 2022

- Implemented a graph search heuristic algorithm to calculate optimal flight itineraries given cost, distance, etc.
- Used Kiwi's Multi-city Search API to find real flight tickets and prices for the generated itineraries
- Integrated the flight search to a frontend built in HTML, Bootstrap CSS, and Javascript using Flask

COMMUNITY & LEADERSHIP

Student Relations Officer

Nov. 2021 – Present

Eta Kappa Nu — EECS Honors Society

Berkeley, CA

- Develop curriculum and teach computer science at local underfunded high schools through weekly events
- Host weekly tutoring hours to 10+ students to help in various undergraduate EE/CS courses

TECHNICAL SKILLS

Advanced: Python, C++, C, Java, HTML/CSS, JavaScript, React, Jupyter Notebook, Git,

Familiar: SQL, R, Docker, Flask, NumPy, PyTorch, pandas, OpenCV, REST APIs