Michael Wu

858-205-4315 | michael.wu1@berkeley.edu | linkedin.com/in/michael-wu-sd | github.com/mykolwu

EDUCATION

University of California, Berkeley — Berkeley, CA
B.E. in Electrical Engineering and Computer Science, B.S. in Business Administration — *Expected May 2024*
- GPA: 3.91
- Relevant Coursework: Computer Architecture, Computer Security, Data Structures, Data Science, Discrete Math, Efficient Algorithms & Intractable Problems, Probability and Statistics, Stochastic Processes

EXPERIENCE

Berkeley EECS Department — Aug. 2022 - Present
CS 61A Teaching Assistant (TA), 8 hour/week position — *Berkeley, CA*
- Teach discussion sections and host office hours for Berkeley's largest CS course (1700+ students)
- Record walk-through homework "getting started" and past exam walk through videos
- Design problems for labs, proofread discussion worksheets, and test-solve exams

Berkeley Statistics Department — Aug. 2022 - Present
STAT 20 Teaching Assistant (TA), 8 hour/week position — *Berkeley, CA*
- Teach introductory statistics and probability to undergraduate students in office hours and discussion sections

PROJECTS

Flight Search Software | *Python, pandas, Kiwi Multi-city Search API* — July 2022
- Led a team of 5 to design and code a flight search algorithm to generate flight itineraries with multi-day layovers that are cheaper than direct flights
- Implemented a graph search heuristic algorithm to calculate optimal flight itineraries given cost, distance, etc.
- Integrated flight search algorithm with Kiwi's API to find real flight tickets and prices for the generated itineraries
- Won the grand prize for 2022 European Innovation Academy and invited to interview to join 500 Startups

AirOver Website (https://airover.travel) | *Bootstrap, HTML, CSS, Javascript, PHP* — July 2022
- Designed and developed website from start to finish with 1000+ unique visitors
- Implemented IP Tracking on landing page and results page using for analytics such as unique users and conversion rate from landing to results page

Gitlet | *Java* — Apr. 2022
- Created a modified version of Git, complete with add, commit, branch, merge, checkout, etc. commands

Scheme Interpreter | *Python* — Nov. 2021
- Created a interpreter for the Scheme language using tokenization and recursive evaluation

COMMUNITY & LEADERSHIP

Berkeley ACE Lab — Oct. 2022 - Present
Researcher — *Berkeley, CA*
- Create innovative computer science "Faded Parsons" problems to emphasize original code writing over solution reconstruction for Berkeley's largest undergraduate CS courses
- Develop courseware and automatic support for "cheat traps" and integrate technology into PrarieLearn

Eta Kappa Nu — EECS Honor Society — Nov. 2021 – Present
Service Officer — *Berkeley, CA*
- Develop curriculum and teach computer science principles to local underfunded high school students using the Scratch language through weekly events
- Host weekly 2 hour office hours to answer EE/CS questions for Berkeley students
- Coordinate de-stress events like game nights and post-exam cookie runs for the UC Berkeley student body

TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL, R, HTML/CSS, Javascript
Frameworks: NumPy, Pandas, Requests, Flask, Bootstrap
Developer Tools: Git, Jupyter Notebook, Heroku
Other: REST APIs, Linux, Agile, Scrum, LaTeX