Melissa Kwan

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EDUCATION

HARVARD UNIVERSITY   Cambridge, MA
A.B. in Computer Science and Philosophy, GPA: 3.9.   May 2022
Relevant Coursework: Data Structures and Algorithms, Abstraction and Design in Computation, Theoretical Computer Science, Linear Algebra and Real Analysis I, Mathematics for Computation, Statistics, and Data Science, Introduction to Probability, Introduction to Statistical Inference, Experiential Lessons in Design for Desirability

HARKER HIGH SCHOOL   San Jose, CA
GPA: 4.6. SAT: 790 V, 790 M.   May 2018
Editor on journalism staff and setter on varsity volleyball team. Managed 67 reporters to write 174 profiles for Humans of Harker project encompassing video and written features. Awards: 2018 CSPA Crown Finalist, 2017 NSPA Picture of the Year Finalist, 2018 JEA first place video human interest story in Northern California.

SKILLS & PROJECTS

Programming and data analysis: Python, Java, C++, OCaml, React, JavaScript, HTML, CSS, Firebase, Flask, R
Design: Sketch, Figma, Illustrator, InDesign
Web design: Designed hodp.org, datamatch.me, meet23.datamatch.me
Videography: Shot and edited [wedding](#) and [profile](#) videos using Nikon DSLR camera and Final Cut Pro

TECHNICAL EXPERIENCE

HARVARD UNIVERSITY   Cambridge, MA
CS51 Teaching Fellow: Abstraction and Design in Computation   January — May 2020
Teach class of 10-15 students on functional, imperative, and object-oriented programming paradigms in OCaml. Hold weekly office hours and problem-solving sessions. Grade problem sets and exams and provide feedback on code design.

FISHERMAN TECHNOLOGIES   Boston, MA
Software Engineering & Product Management Intern   March — August 2019
Interned term-time and over the summer at Fisherman, a startup that generates websites for restaurants and other SMBs. Outlined product roadmap for generator. Improved and re-implemented flexible page layout algorithm in JavaScript. Built React components for use in generated websites. Reduced manual website edit time by 50%.

HARVARD OPEN DATA PROJECT, Publisher   April 2019 — Present
Redesigned and implemented website using Python, Flask, and Jinja. Taught Python and Jupyter Notebook bootcamp session for 30 new members. Manage codebase of web apps hosted on the website and promote articles on social media.

DATAMATCH, Design Lead   November 2018 — Present
Lead 10-person team to design UI/UX of Datamatch website for semi-serious Valentine's Day matchmaking service used by over 25,000 students across 17 universities. Conduct user interviews with students and restaurant partners to create redesigned interface. Teach frontend design in React to new members.

ADDITIONAL EXPERIENCE

SONICWALL   Milpitas, CA
Marketing Intern   July — August 2018
Shot and edited marketing videos featuring the product dashboard, careers, and interviews with the CEO. Designed and created animations in Adobe AfterEffects. Integrated footage and animations using Final Cut Pro.

INTERESTS

Other Activities: Club Squash, Women in Computer Science, Harvard Review of Philosophy.
Interests: Volleyball, crossword puzzles, videography.