

Jacob Shandling

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dev.jakeshandling.com

Skills

Python • Django & Django REST Framework • JavaScript • React • HTML • CSS
Git • Vim • Bash • Webpack • Heroku • AWS

Education

Self-Study

September 2019 - Present

- MITx – XSeries Program in Computational Thinking & Data Science Using Python
- Stanford Online - Algorithms I: Divide and Conquer, Sorting and Searching, and Randomized Algorithms
- Stanford Online - Algorithms II: Graph Search, Shortest Paths, and Data Structures
- Stanford Online - Algorithms III: Greedy Algorithms, Minimum Spanning Trees, and Dynamic Programming
- Stanford Online - Algorithms IV: Shortest Paths Revisited, NP-Complete Problems
- Harvard CS50x (first half, covering C & memory management)
- Harvard CS50x - Web Programming with Python and JavaScript
- Self-guided learning of React, Django, and Django REST Framework from documentation
- freeCodeCamp - Responsive Web Design

University of California, Santa Cruz **Bachelor of Science - Molecular Biology;** **Studies in Music Theory & Performance**

2007 - 2011

Cum Laude, University Honor, Phi Beta Kappa

Experience

Software Developer, Personal and Group Projects

October 2020 – Present

- Design and develop open-source full-stack web apps using modern technologies
- Developed the inference engine for an ML-based computer vision model using Python
- Collaborate concurrently and remotely with team members, maintaining version control using Git

Professional Multi-Instrumentalist, Composer and Bandleader

June 2006 – Present

New York, NY and Worldwide

- Internationally touring musician and highly regarded educator
- Reputation for consistent elite-level performance which has resulted in concerts from New York's Jazz at Lincoln Center to the Jazz Gallery and for audiences of up to 250,000 in 10+ countries
- Produce original recordings, arrangements, film scores and live performances
- Hundreds of clients and collaborators including Ben Goldberg, Joe Warner, Slavic Soul Party, and Groundation

Science and Mathematics Teacher/Tutor, The Beekman School

April 2016 – June 2018

New York, NY

- Taught and tutored courses in the natural sciences and mathematics
- Maintained communication among faculty, staff, parents and students

Research Assistant, The Zahler Lab, UC Santa Cruz

January 2011 – December 2011

Santa Cruz, CA

- Studied somatic nuclear rearrangement processes in the ciliated protozoan *Sterkiella histriomuscorum*
- Developed and optimized protocols for investigation of novel RNA functionality in these processes
- Maintained clear and consistent documentation and communication within a team of researchers