

Jacob Shandling

jacobshandling@icloud.com

dev.jakeshandling.com

Tools & Languages

Python • Django • JavaScript • React • Webpack • Heroku • AWS S3

Projects

[soundseeker.app](#)

- [View an interesting part of the source code](#)
- A webapp for organizing musical ideas
- Front end: React/Javascript, HTML/CSS, Webpack;
Back end: Django, Django REST Framework, PostgreSQL; Deployed with Heroku and AWS S3

[kruskals-as-clustering](#)

- Kruskal's algorithm and the union-find data structure applied to the clustering problem
- [music.jakeshandling.com](#)
- Portfolio for my work as a musician
- HTML, Bootstrap CSS, Javascript

Education

Select Self-Study

September 2019 - Present

- Documentation-driven study of and building with React, Django, Django REST Framework (2022)
- [University of Alberta Online - Software Design and Architecture Specialization](#) (in progress, 2022)
- [Harvard CS50 - Web Programming with Python and JavaScript](#) (2021 - 2022)
- [Stanford Online - Algorithms I, II, III, and IV](#) (2020 - 2021)
- Harvard CS50x (first half, covering C and memory management) (2021)
- [MITx - Program in Computational Thinking & Data Science Using Python](#) (2019 - 2020)

University of California, Santa Cruz

2007 - 2011

Bachelor of Science - Molecular Biology;
Studies in Music Theory & Performance
Cum Laude, University Honor, Phi Beta Kappa

Experience

Software Developer - Personal and Group Projects

October 2020 - Present

Remote

- Design and develop open-source full-stack web apps using modern technologies
- Rapidly and thoroughly learn and apply new technologies
- Deploy web apps on industry-standard Platforms-as-a-Service (Heroku, AWS)

Software Development Intern - Thring

October 2020 - January 2021

Remote

- Develop the inference engine for an ML-based computer vision model using Python, TensorFlow, and PyTorch
- Collaborate concurrently and remotely with team members, maintaining version control with Git

Multi-Instrumentalist, Composer, Educator - Musician

June 2006 - October 2020

New York, NY and Worldwide

- Internationally touring drummer and highly regarded educator
- Reputation for elite-level performance resulting in concerts from New York's Jazz at Lincoln Center to the Jazz Gallery for audiences of up to 250,000 in 10+ countries, 20M+ album streams in one year, 500,000+ video views

Research Assistant - The Zahler Lab, UC Santa Cruz

January 2011 - December 2011

Santa Cruz, CA

- Study nuclear rearrangement processes in the ciliated protozoan *Sterkiella histriomuscorum*
- Develop and optimize protocols for investigation of novel RNA functionality in these processes
- Maintain clear and consistent documentation and communication within a team of researchers

Science and Mathematics Teacher/Tutor - The Beekman School

April 2016 - June 2018

New York, NY

- Teach and tutor courses in the natural sciences and mathematics
- Maintain communication among faculty, staff, parents and students