

Jacob Shandling

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dev.jakeshandling.com

Tools & Languages

Python • Django • Django REST Framework • JavaScript • React • Webpack • Heroku • S3

Projects

Soundseeker.app

- A tool for organizing and juxtaposing musical ideas in the form of short audio recordings
- Front end built with React/Javascript, HTML/CSS, Webpack; Back end built with 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 – Thriving

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

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

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