# Christalee Bieber

Brooklyn, NY

Homepage Github

# **Experience Lewis Rhodes Labs**

West Concord, MA

Consultant

10/18-1/19

- Adapted marketing materials from PowerPoint to a modern web format, using Django & Wagtail CMS to allow flexible page layouts, hosted on Google Cloud for secure client review.
- Wrote Python and JavaScript to consume and display realtime data from a hardware prototype via Redis.

## **Workshop School**

Philadelphia, PA

Technology Coordinator

9/13-6/16

- Deployed and maintained 200+ Chromebooks, 50+ iMacs, and 25 Windows desktops for students in a project-based interdisciplinary CTE (Engineering & Automotive) high school.
- Spearheaded CS/tech education by teaching programming & web design; designing curriculum and teacher PD; mentoring student projects; advising the Computer Club; and organizing career exploration.
- Trained and supervised students & staff using the fabrication shop. Example projects: building a recording studio; laminating & decorating skateboard decks; designing & constructing solar battery chargers.

#### MIT OpenCourseWare

Cambridge, MA

Department Liaison

7/07-4/13

- Published 75+ courses under a Creative Commons license, producing multimedia, copyright-cleared material, sample student work, transcribed notes, custom site architecture, and other features as needed.
- Supervised HTML/document authoring contractors and coordinated with IP and Production teams to design rich online educational content, meeting the needs of OCW users, individual faculty, and MIT as an institution.
- For the MIT-SUTD Collaboration, designed processes and trained staff to produce teaching materials for 87 classes, delivered to the Singapore University of Technology & Design (SUTD) by April 2012.

## **Projects**

- Advent of Code: An annual puzzle competition, with polished and annotated solutions in Python for 2016 and partial work in other years.
- buffer-adventure: A vampire slayer text-adventure game. Originally an excuse to review object-oriented programming in Python, now a way to try out static typing with mypy and regression testing/TDD.
- hhd-music: High Holidays music typeset using Lilypond, a text-based music editor.
- berrybasket: Datalogging and in-class analysis for 5th & 6th grade students, exploring the heat retention in cardboard model houses. Presented at the Open Hardware Summit 2013.

#### **Education**

Kaggle (2020)	Pandas, Intro to ML, Intermediate ML, Deep Learning, Data Visualization
IBM (2018)	Data Science Foundations Level 2, Applied Data Science with Python - Level 2
Codecademy	Bash, Regexp, Git, JavaScript, Node-SQLite, React Part 1 & Part 2

#### Massachusetts Institute of Technology

Cambridge, MA

Bachelor of Science, Physics

June 2007

Thesis: Self-Assembly of Conformal Polymer Electrolyte Film for Lithium Ion Microbatteries

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Software	Python, HTML/CSS, SQL, JavaScript, LATEX, Scratch, App Inventor
Fabrication	3D printing, laser cutting, CNC woodworking, Arduino, RasPi, circuit design/testing
General	Project management, proofreading/copyediting, experimental design