

CHARLIE J. VOLOW

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Self-taught software developer and data engineer with extensive experience in data-driven operations. Author of Jackdaw (digital audio workstation).

SOFTWARE PROJECTS

Jackdaw (WIP) | Digital Audio Workstation (desktop) | C, SDL2 2023 - Present

- Includes a custom-built layout engine and editor, GUI toolkit, and input-handling / keybinding subsystem
- "i've been meaning to migrate my audio production workflow to linux, and this project seems the most promising. i like that there's only the sdl2 dependency, which took very little time to compile" — [anonymous user](#)
- Github repository: <https://github.com/chvolow24/jackdaw>

Pika | Web | JavaScript 2024

- A tiny client-side HTML template tool written in vanilla JavaScript. Github repository: <https://github.com/chvolow24/pika>

Carpenter's Calculator | iOS App | Swift, SwiftUI 2022 - 2023

- Available on the [App Store](#). Read more at charlie-volow.com/carpenters_calculator.html
- 3.47k downloads, 128 average monthly users and perfect 5-star rating (as of November, 2024)
- "This calculator is just what I needed in my workshop to help me with Imperial fractions. It also has all the trig functions you need for angular math. It couldn't be easier to use. Nicely done!" — App Store reviewer

In-Line Calculator | Browser extension | HTML, CSS, JavaScript 2020

- Enables evaluation of mathematical expressions and formatting of numbers while typing on most websites (e.g., in an email)
- Available for [Chrome](#) and [Firefox](#)
- Github repository: https://github.com/chvolow24/in-line_calculator

EXPERIENCE

The Recurse Center (Brooklyn, NY)

Participant

February 2024 - May 2024

- Primarily focused on developing Jackdaw (see above) in a highly collaborative programming environment

Butterfly Network (New York, NY)

Data Engineer

April 2023 - July 2023 (affected by layoffs)

- Developed a repeatable account matching/reconciliation procedure for ingestion of large external datasets
- Standardized and modeled software subscription data in dbt/BigQuery to support a variety of commercial and CX initiatives
- Engineered custom ETL pipelines in Python / Google Cloud Run to fill gaps left by enterprise ETL tools

Support Ops Engineer

December 2021 - April 2023

- Functioned as sole owner of Support Team-related data and systems
- Designed and implemented new pilot warranty policy and workflow, resulting in ~\$450K in savings annually

Technical Support Specialist

October 2020 - December 2021

- Provided first-tier customer support for issues related to PACS / EMR / SSO / MDM integration

Oscar Health (New York, NY)

Analyst, Single-Case Contracting

November 2019 - July 2020 (affected by layoffs)

- Developed full-stack web application (React + Flask + BigQuery) to consolidate manual team processes

Provider Relations Representative

April 2018 - November 2019

Tinc Productions (and others) (New York, NY): *Freelance Production Assistant* *July 2017 - April 2018*

Dept of Parks & Rec (New York, NY): *Parks Enforcement Patrol Officer* *August 2016 - June 2017*

EDUCATION

Williams College (Williamstown, MA)

September 2012 - June 2016