

MAX BREWER

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Entrepreneur, designer and full-stack software engineer.

EXPERIENCE

Senior Software Engineer **Dryad Systems** **2022-Present**

Dryad Systems is the company behind Sparklpaint, a fast and user-friendly app for image synthesis.

- Architected and developed a fully-featured web app
- Led technical decision-making for front end
- Designed brand identity, typography and styling
- Implemented image optimization, optimistic UI and intelligent caching
- Built a resilient React data model with hooks, reducers and context
- Engineered a responsive user interface with modern CSS Grid and Flexbox

Software Engineer (contract) **Mobilecoin** **2021-2022**

Mobilecoin is a secure, fast and environmentally friendly cryptocurrency that's tightly integrated with Signal secure messenger.

- Contracted by internal team doing payments-enabled chatbots on Signal
- Led greenfield project to enhance chatbot intelligence
- Contributed to open-source Forest bot platform
- Analyzed existing language models, APIs and chatbot frameworks including Rasa, Dialogflow, GPT-3, and Jurassic-1
- Ported the open-source Personate framework from Discord to Forest

Founder **Organic Books** **2018-2022**

Organic Books is an independent bookstore that I co-founded in Albuquerque.

- Led executive and technical decision-making
- Designed brand identity, typography and styling
- Survived pandemic by migrating to a digital inventory system and selling online
- Pivoted to used-and-new in 2021 and became profitable
- Developed a static React website that raised our Google organic search rankings by TK%
- Used machine learning in Python to curate book inventory and predict sales patterns

Permaculturist **2012-2018**

I worked and lived in off-grid communities, studying and practicing the ecological design system known as permaculture.

- Took responsibility for key life-support systems such as water filtration, biomass heating, and solar and hydroelectric power.
- Tended livestock, farms and orchards.
- Designed and implemented food forest gardens
- Built carpentry and masonry hardscaping
- Coordinated and mentored community volunteers

PROJECTS

The Mirror of Language **2022**

Article about [prompt engineering as a form of magic](#), commissioned by the magazine *Return.Life*

Memery **2021**

Local-first image search with deep learning

- The first CLIP-based semantic image search engine
- Open source project with over 100 stars on Github
- Index 1000 images in ~30 seconds, search them in less than 0.1
- Written as a literate program using nbdev from fast.ai

SKILLS

- Frontend: React, Typescript, Javascript, HTML, CSS
- Backend: Python, Docker, CI/CD
- Data: Pandas, spaCy, PyTorch, prompt engineering