

Thomas O'Neill

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React developer; systems engineer.

Functional, declarative, creative coding;

Unix philosophy; interactive learning.

Experience

Co-Founder & Lead Developer @ [Bearjam](#)

Jan 2020 - Present

A web development company. Recent work:

- ▶ **Dream Builder**: a web tool for creating digital vision boards
 - ▶ 2D application built in 3D space with React Three Fiber (Three.js)
 - ▶ Documented in a blog post series [here](#)
 - ▶ Custom shader for crop implementation (WebGL, GLSL)
 - ▶ React Spring and Use Gesture libraries for animations and gestures
 - ▶ Self-hosted with Kubernetes/Docker on DigitalOcean
- ▶ **Bear Bookshop**: an e-commerce site for a local bookshop
 - ▶ Next.js React SSR framework for front-end and first-line API routes
 - ▶ Stripe and iZettle payment API integrations
 - ▶ Hasura GraphQL API for PostgreSQL database
 - ▶ Framer Motion for animations
 - ▶ Self-hosted with Kubernetes/Docker on DigitalOcean

See [our blog](#) for our latest experiments.

Travel & Self-Directed Learning

Jan 2018 - Dec 2019

During travels across Nepal and India, some time was spent learning:

- ▶ Functional Programming in Haskell and JavaScript/TypeScript
- ▶ Reactive programming (ReactiveX, RxJS, Elm, PureScript)
- ▶ **Web Audio and DSP fundamentals**
- ▶ **Cryptography fundamentals**

Prospective Founder @ [Free the Data](#)

June 2017 - Dec 2017

This project was developed from idea to business plan with social startup incubator [Social Digital Innovation](#). Free the Data was an initiative to develop a suite of open-source software enabling users to cross-channel their data into user-managed, distributed stores.

- ▶ Prototyped a React Native location-tracking mobile app
- ▶ Basics in business and entrepreneurship

Systems Engineer & Developer @ [Claranet](#)

Nov 2015 - April 2017

Automation development for core network and server configuration management.

- ▶ Open-source DevOps tooling (e.g. Docker, Kubernetes, Ansible etc.); Python/Golang programming, shell scripting
- ▶ Proof of concept deployment of OpenStack
- ▶ **Contributed to OpenStack Kolla**
- ▶ Developed in-house configuration management tools
 - ▶ UI and REST API in Java
 - ▶ Automation scripts in Perl

Service Desk Analyst @ [SCC](#)

May 2014 - Oct 2015

24x7 service desk in NOC supporting SCC's secure multi-tenant government cloud platform known as Sentinel.

- ▶ User-facing technical support
- ▶ NSV SC clearance required
- ▶ Completed certifications independently, including CCNA