



Thomas Museus Dabay

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Full Portfolio

<https://thomas-m-d.github.io>

Core Competencies

- ♦ HTML ♦ CSS ♦
- ♦ JavaScript ♦ React ♦
- ♦ Redux ♦ Node/NPM ♦

Experience With

- ♦ SASS ♦ Bootstrap ♦
- ♦ d3 ♦ jQuery ♦
- ♦ Git ♦ GitHub ♦
- ♦ C ♦ Java ♦ BASH ♦
- ♦ Emacs ♦ Vimscript ♦
- ♦ VSCode ♦ Emacs ♦
- ♦ Vim ♦ Android Studio ♦
- ♦ Windows ♦ MacOS ♦
- ♦ Linux ♦

Previous

Employment

Lecturer at Vanderbilt's
Philosophy Department
(Aug. '17 – Aug. '19)

Education

Ph.D. in Philosophy
(Aug. '12 – Aug. '17)

B.E. in Electrical Engineering
with High Honor
(Aug. '07 – May '12)

Portfolio Spotlight

Learn Polish Calculator React App (<https://thomas-m-d.github.io/learn-polish-calc>)

Unlike other calculators, it includes a display for the Polish (i.e. Prefix) Notation equivalent of the current formula.

Coding Features

- ♦ Builds **DRY (Don't Repeat Yourself)** in at the outset through reusable **React** components
- ♦ Implements **JavaScript's first-class functions** to pass the relevant function into the backspace, clear, and equals buttons' base component
- ♦ Makes use of **React's** facility with **composition** by **encapsulating** HTML for the app's title and help button
- ♦ Imports **React-Redux** to connect relevant components to one central location for **app-wide state**
- ♦ Applies **recursion** to correctly evaluate arbitrarily large formulae

UI Features

- ♦ **Prevents** users from typing **ungrammatical formulae**
- ♦ **Updates** the Polish notation formula field **as the user types**
- ♦ **Correctly evaluates** arbitrarily large numbers of (embedded) **parenthesis pairs**
- ♦ Implements **character input** through **on-screen buttons** and the **user's keyboard**

FreeCodeCamp Experience

(Aug. '19 – Present)

- ♦ Completed the **Responsive Web Design, JavaScript Algorithms and Data Structures, and Front End Libraries** Certifications
- ♦ Completed all but the projects section of the **Data Visualization and APIs and Microservices** Certifications

Lessons from Academia

- ♦ Writing my dissertation taught me how to perform **self-directed** and **always-ongoing research**, culminating in my 212-page final draft.
- ♦ I am a **quick learner** who **learns on my feet**, a skill that allowed me to defend my dissertation 1 year earlier than the average for my department.
- ♦ My philosophical training instilled in me the importance of **clearly communicating complex ideas**, both **verbally** and **in writing**. This has paid off in numerous well-received presentations and my lengthy publication record.
- ♦ I honed my **teaching abilities** after being the lead instructor for 16 undergraduate-level classes, including many on logic and writing.
- ♦ My time as the Philosophy Fellow at Vanderbilt's Writing Studio taught me how to lead **collaborative, one-on-one tutoring sessions**.

Current Personal Projects

- ♦ Design and build 2 **Teensy-based eurorack music synthesis modules**
- ♦ Install and configure **Arch Linux ARM** on a **Raspberry Pi 4**

