



# Thomas Museus Dabay

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

## Full Portfolio

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

## Core Competencies

- ♦ HTML ♦ CSS ♦
- ♦ JavaScript ♦ React ♦
- ♦ Node/NPM ♦ Express ♦
- ♦ MongoDB ♦ mongoose ♦

## Experience With

- ♦ SASS ♦ Bootstrap ♦
- ♦ d3 ♦ jQuery ♦ Redux ♦
- ♦ Git ♦ GitHub ♦
- ♦ C ♦ Java ♦ BASH ♦
- ♦ Elisp ♦ 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, Front End Libraries, and APIs and Microservices** Certifications
- ♦ Completed all but the projects section of the **Data Visualization** Certification

## 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, mostly 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**
- ♦ Configure **Linux-based** home media network on multiple **Raspberry Pis**