**Skills:** Applied + Computational Math, UNIX, Bash, Git, Python, Jupyter, Javascript, React, Ruby/Rails, Golang, AWS, PostgreSQL, Redis, Docker, Gatsby, GraphQL, D3, WebGL, Vim

# Github: https://github.com/domoench

### EDUCATION

[2021 – 2023] M.S. in Applied and Computational Math. Johns Hopkins University. GPA: 3.96.
[2012 – 2014] B.S. in Comp Sci. University Of Texas at Austin. GPA: 3.98. Phi Beta Kappa.
[2005 – 2009] B.A in Music. Wesleyan University. Graduated with honors.

# EXPERIENCE

### [06/2022 - 09/2022] Graduate Research Assistant. RESET Lab at UT Austin - Remote

- Developed and validated vehicle energy requirement models with UT professor Sergio Castellanos as part of RESET lab's ongoing research into transit bus fleet electrification in Mexico City.
- Tools: Jupyter, NREL's FASTSim, Python, Numpy, Pandas

# [05/2019 - 05/2021] Senior Software Engineer. Kickstarter - NYC

- Worked on the payments team leading full stack technical projects from compliance with regulatory changes like KYC and SCA to frontline support remediating mission-critical incidents.
- Tools: React, Ruby/Rails, Sorbet, Typescript, MySQL.

#### [02/2019 – 05/2019] Freelance Fullstack Software Engineer. Joro – Remote

- Worked on the early-stage architecture and implementation of Joro's mobile apps. Designed and implemented the carbon offset subscription backend. Other miscellaneous full stack and devops responsibilities: Automating the CI and deployment pipeline, API design, DB migrations, website maintenance.
- Tools: React / React Native, Stripe / Plaid, AWS, CircleCl.

# [1/2015 - 3/2017] Software Engineer. Datadog - NYC

- Contributed to all levels of the application stack, from streaming metrics ingestion (millions of data points per second), backend service scaling, and DB migrations, to frontend real-time d3 graph visualizations and UI features. Implemented the metric metadata system, used for displaying units in visualizations. Member of the ops 24/7 on-call rotation. Conducted engineering interviews.
- Tools: Golang, Python, Javascript, PostgreSQL, Redis, Consul, AWS, Linux, Looker, Pagerduty.

# [3/2017 - 1/2019] Blubox - Baltimore, MD

• Designed and built a tiny house out of structural insulated panels. https://blubox.house.

#### [2014] Research Assistant. UT Austin Computational Visualization Center - Austin, TX

• Obtained funding, conducted research, and implemented a software tool with Python and Matplotlib for use by neuroscience researchers to visualize neuronal connetomics data acquired through fMRI.

# MISC

**Volunteering**: Girls Who Code teacher at Urban Assembly Unison School in Brooklyn. Fall 2017. **Interests and Hobbies:** Music composition, design + construction, guitar, sustainability, journalism **Language:** Elementary Chinese