
EXPERIENCE

TrampleZone *North Reading, MA* — Software Engineer, Frontend/Backend

MAY 2019 - FEB 2024

- Worked closely with the founder of the company in planning and developing a mobile & desktop application.
- Created all necessary model classes on the frontend with a TDD approach using the Jasmine framework.
- Designed and implemented responsive UI components that worked across mobile & desktop.
- Trained multiple new hires so they could contribute to the project.
- Created promotional content and app store materials using Adobe Premiere & Figma.
- Attended weekly SCRUM stand-ups to report on progress or barriers.
- Implemented CRUD APIs for multiple model classes on our Java/SQL backend.

PROJECTS

Single Sign-On *login.bnav.dev*

2025

- Created an app that acts as an OIDC Provider to my other apps.
- Read through multiple RFCs (6749, 6750, 9700) to learn about Authorization Flow, PKCE, OIDC, and OIDC Providers.
- Iterated through multiple solutions before finding the better-auth library.

Nextjs Todo Application *todo.bnav.dev*

2025

- A full-stack todo application built with Nextjs that supports public and private projects & tasks.
- Interfaces with my SSO solution to support user accounts.
- CRUD methods originally implemented with raw SQL, with later migration to an ORM (Prisma).

Duolingo Anki Flashcards *Personal Project*

2025

- Userscript and Python scripts to capture Chinese vocabulary from Duolingo and create Anki flashcards with English translation, Hanzi, Pinyin, audio.
- Complies with Duolingo's TOS by not scraping their copyrighted assets by using external TTS services.
- Python script creates a CSV that can be passed to Anki for easy flashcard creation.

Portfolio Site *bnav.dev & js.bnav.dev*

2025

- Began as a vanilla HTML/JS/CSS project implemented following the practices I used at TrampleZone.
- Re-implemented using Nextjs/React/Typescript/TailwindCSS
- Served as a practical comparison of how the basic building blocks of the web have evolved to more modern framework-based development.

TTB Application *Worcester Polytechnic Institute*

JAN - FEB 2019

- Worked in a team of ten to develop an application for the Alcohol & Tobacco Tax & Trade Bureau database using Agile/SCRUM methodologies
- Coordinated the artifacts created by the project: project documentation, requirements documentation, models, user documentation, training materials, and software code documentation
- Responsible for designing and programming UI and controllers

SKILLS

Languages: JS, CSS, Java, SQL, Python, Typescript**Applications:** Figma, Adobe Premier, VSCode, Eclipse**Frameworks/Packages:** React, Git, Nextjs, TailwindCSS

EDUCATION

Worcester Polytechnic Institute — Worcester, MA

Bachelor of Science in Computer Science

AUG 2016 - MAY 2020 — GPA: 3.25