

Nathaniel J. Liberty

// Full-Stack Web Developer

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Profile

A driven full-stack web developer building creative solutions for healthcare and more.

As a data analyst with a passion for technology, I discovered programming out of a drive to push myself further. I fell in love with the versatility of JavaScript, using it to create websites, mobile apps, and desktop applications. I now look forward to the daily adventure of exploring the latest web technologies and using them to build new and exciting projects.

Experience

Freelance

Full-Stack Web Developer, December 2018 to present

Works with clients to create custom applications for web design, data analytics, workflow automation, and more.

Northwell Health — Manhasset, NY

Data Analyst, October 2016 to present

- Creates scripts to automate workflow processes using NodeJS and maintains applications used by healthcare providers
- Designed and maintains SQL database to audit controlled substance diversion
- Performs data analysis, analytics, and prepares visualizations regarding medication safety, antimicrobial stewardship, workflow management, finances, and more

Projects

C2 Auditing Tools

- 🖥 Desktop: <https://github.com/LibertyNJ/c2-auditing-tools>
- 🌐 Web: <https://github.com/LibertyNJ/cytoxan-label-maker-web>
- 🌐 <https://c2-auditing-tools-web.herokuapp.com/>

An application that facilitates the auditing of controlled substance chain of custody, tracing medications from time of dispensing, to time of administration or other disposition.

- Key technologies: React, Redux, NodeJS, Express, PostgreSQL, SQLite, Electron
- Reduced time needed for a tertiary hospital's monthly controlled substance diversion auditing from two weeks to one hour
- Dynamically builds results based on user-entered search criteria and available data at runtime
- Parses reports from disparate sources and stores data in SQL database
- Utilizes virtualized, sortable tables to handle large datasets without degrading performance
- Web version calls a REST API built using Express

Study Drug and Cytoxan Label Makers

- 🖥 Desktop: <https://github.com/LibertyNJ/study-drug-label-maker> & <https://github.com/LibertyNJ/cytoxan-label-maker>
- 🌐 Web: <https://github.com/LibertyNJ/study-drug-label-maker-web> & <https://github.com/LibertyNJ/cytoxan-label-maker-web>
- 🌐 <https://nathanieljliberty-sdlm.netlify.com/> & <https://nathanieljliberty-clm.netlify.com/>

A pair of applications that create outpatient medication labels of varying formats.

- Key technologies: React, Redux, Electron
- Adopted as replacements for lost functionality in sunset Siemens Pharmacy application
- Features live preview, automatic dosing calculations, and unit conversions

VaccTrac

- 🖥 <https://github.com/LibertyNJ/vacctrac-poc>
- 📱 <https://tinyurl.com/vacctrac-poc-android>

A proof-of-concept mobile application to help transplant patients track immunizations.

- Key technologies: React Native, Redux, Expo
- Uses local storage to handle persistent user data

Abigail & Nathaniel

- 🖥 <https://github.com/LibertyNJ/abigail-and-nathaniel>
- 🌐 <https://www.abigailandnathaniel.com/>

A scrolling, single-page wedding website created in collaboration with a designer.

- Key technologies: React, Gatsby
- Mobile-first responsive design that scales up to larger viewports

Community Church of Syosset

- 🖥 <https://github.com/LibertyNJ/community-church-of-syosset>
- 🌐 <https://uccsyosset.netlify.com/>

A modern, responsive redesign of a church's website using Contentful as a CMS.

- Key technologies: React, Gatsby, Contentful, GraphQL
- Mobile-first responsive design that scales up to larger viewports
- Uses Google Maps API to create local maps of event locations
- Dynamic pagination controls that appear when needed and hide with limited content

Skills

- Core:** HTML5, CSS3, JavaScript, TypeScript, SQL
- Front-end:** Bootstrap, React, Redux, Sass, Styled components
- Back-end:** Express, GraphQL, Node.js, PostgreSQL, Sequelize, SQLite
- Testing:** Jest
- Tools:** Babel, Git, NPM, Webpack
- Platforms:** Contentful, Electron, Expo, Gatsby, Heroku, Netlify, React Native

Education

Montclair State University
Montclair, NJ

M.A. in Music Theory and Composition
B.Mus. in Music Theory and Composition

GPA: 3.978
GPA: 3.837