

New York, NY

Nathaniel J. Liberty

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Employment

Category Management Analyst **Northwell Health** **May 2020 - Present**

Pharmacy Procurement Tools: suite of applications that facilitate healthcare business decisions

- Spearheaded development of a collection of microservices using TypeScript and NodeJS.
- Established modular, clean architecture and utilized Jest to practice test-driven development.
- Interfaced with existing SQL Server procurement database.
- Metrics: reduced time taken to select formulary medications by 66%; identified \$500,000 annual pharmaceutical overspend, and 2,700 items with contracting issues leading to recouped credits.

Data Analyst **Northwell Health** **October 2016 – May 2020**

C2 Auditing Tools: an application that expedites auditing of controlled substance diversion in hospitals

- Reduced time needed for monthly drug diversion audits from two weeks to one hour using JavaScript and NodeJS to create an algorithm that parses and integrates disparate data sources.
- Other technologies: SQLite, Sequelize, React, Redux, Bootstrap, Sass, Electron

Cytoxan and Study Drug Label Makers: patient-specific label generators for chemo and research drugs

- Built as desktop applications using React, Redux, and Electron.
- Improved patient safety by incorporating automatic dosage calculations and industry-standard text and number safety formatting using JavaScript string and number manipulation.

Projects

Abigail & Nathaniel (www.abigailandnathaniel.com): a wedding website

- Collaborated with a designer to build a responsive website for an upcoming wedding.
- Created a backend server to handle electronic RSVPs using NodeJS and the Express framework.
- Automated personalized HTML emails using templates created with React and NodeJS.
- Other technologies: JavaScript/TypeScript, React, Bootstrap, MongoDB, Gatsby, GraphQL,

Community Church of Syosset (www.uccsyosset.org): a church website

- Transformed a church's aging website through rebranding and a modern responsive redesign.
- Leveraged Contentful to create a focused, easy-to-use CMS for content managers.
- Utilized webhooks, Gatsby, and the Google Maps API to automatically create static HTML pages.
- Other technologies: TypeScript, Styled Components, React, GraphQL, Netlify

Certifications

Arduino Fundamentals: Electronics and Physical Computing

Certificate ID: 850A10E0-8119-4A76-99DF-7EEACAA30ECE

Education

Montclair, NJ **Montclair State University** **Fall 2005 – Winter 2011**

- M.A. in Music Theory and Composition (GPA: 3.978)
- B.Mus. in Music Theory and Composition (GPA: 3.837)