

# Jonathan Brown

Full-Stack Software Engineer

Westbury, NY

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## PROJECTS

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### Analyze This

10/2021 - 11/2021

- Created a full-stack web application to parse strings for signs of mental illness while also helping the user with their determined ailment(s).
- At the moment, it detects signs of suicide, anger, and addiction.
- To analyze the strings, I developed an algorithm that works with a large pool of words to find determinants of mental illness.
- Determinant words must be in a certain order to be flagged.
- Analysis results and Google Maps API are used to find the nearest facilities (rehab, support groups, etc.) available and information on their illness.
- Client was created with TypeScript and React.js, the REST API with Python (Django), and the data is stored and queried from Firestore (NoSQL).

### Do or Do Not

08/2021 - 09/2021

- Created a social task-managing full-stack web application.
- Allows you to create, share, edit (drawing and image importing features included), and complete tasks with users on your friends list.
- Includes user authentication, a friends list (received and sent friend requests) and friend alerts (ex. notifying a user when a friend has completed a shared task).
- Uses Django as the server framework and React.js as the client library.
- All data is queried from and stored in a PostgreSQL database using a REST API developed with Python (Django).
- Try it here: [Do or Do Not](#).

### Love and Pain Experiment

04/2021 - 08/2021

- Created a full-stack web application to process data for an experimental questionnaire.
- The questions, possible answers, and user input are stored in a MySQL database.
- Developed a Flask REST API used to query and manipulate the data.
- The client library used to present the survey is React.js.
- Upon completion, a chart is displayed which is meant to prove a psychological theory.
- Try it here: [Love and Pain](#).

## TECHNICAL SKILLS

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- > Python, Django, Flask, SQLAlchemy.
- > JavaScript, TypeScript, React, Redux.
- > Bootstrap, Material-UI, CSS, HTML.
- > SQL, PostgreSQL, MySQL.
- > NoSQL, Firestore.
- > Git, GitHub.
- > Firebase, Heroku.

## CERTIFICATIONS

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### Data Structures

UC San Diego (Coursera)  
06/2021 - 08/2021

### Algorithmic Toolbox

UC San Diego (Coursera)  
05/2020 - 07/2020

## EDUCATION

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### State University of New York at Old Westbury

Old Westbury, NY  
01/2011 - 05/2014  
B.A. in Psychology

### Crane School of Music

01/2010 - 03/2010

## EMPLOYMENT

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### Store Manager, LGX

Garden City, NY  
01/2018 - 08/2021