

# Oscar O'Neill

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## SKILLS

**Languages:** HTML, CSS, JavaScript, Python, Solidity

**Tools & Frameworks:** React.js, TypeScript, Node.js, Express.js, Git, Docker, Gulp

**Databases:** MongoDB, PostgreSQL

**Portfolio Link:** [oscaroneill.xyz](https://oscaroneill.xyz)

## SELECT PROJECTS

**Switch** ([switchswapcrypto.netlify.app](https://switchswapcrypto.netlify.app))

- Developed a web application that identifies the best decentralized exchange for executing a token swap
- Aggregated data from multiple protocols to find the top two optimal swap options
- Created with React.js and TypeScript, utilized Web3.js to assist in retrieving swap data from protocols

**Splashgram** ([splashgram.xyz](https://splashgram.xyz))

- Developed a photo viewing web application with React.js that allows users to view photos from Unsplash
- Created a RESTful API that makes calls to Unsplash to fetch data that is then displayed to the front-end
- Implemented Unsplash's OAuth2 user authentication workflow to personalize the experience for all users

**Minimalist NFT** ([minimalist-nft.vercel.app](https://minimalist-nft.vercel.app))

- Created and deployed a smart contract that allows users to mint an NFT on the Ethereum blockchain
- Used Solidity to develop the smart contract, and Ethers.js to interact with the blockchain
- Used React.js to allow users to interact with the smart contract, and to display a minted NFT's data

**NYC Block & Lot Search** ([nycbuildings.vercel.app](https://nycbuildings.vercel.app))

- Developed a web application where a user can find out if a specific address in New York City has any complaints
- Used Node.js to retrieve data from NYC Open Data along with React.js to display the data to the front-end

**Text to Speech**

- Developed a Python program that converts text to speech
- Utilized pyttsx3, a text-to-speech conversion library, for speech synthesis

## EXPERIENCE

**Mintbean Hackathon**

**August 2021**

- Placed in the top 5% of developers and received Mintbean Star Award for exemplary achievement
- Developed a 2D game web application with a clear winning and losing condition

**F. DiFranco Painting Contractors, Inc – Bellmore, NY**

**Painter, January 2019 – February 2020**

- Responsible for the apartment turnover of any recently vacated rental units

## EDUCATION

University at Buffalo - Buffalo, NY – Psychology