Martin Ng

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TECHNICAL SKILLS

Proficient: JavaScript(ES6), Node.js, React.js, Redux, Express, Sequelize, Git, HTML, CSS
Knowledgeable: Python, Java, TDD (Mocha, Chai, Jest), React Native, Heroku, PostgreSQL, ViroReact, SQL

PROJECTS

Stockify - *Sole-Developer, https://github.com/martin-ng/Stockify*

- Full stack web application built to simulate trading stocks by managing a stock portfolio and a transaction's history.
- Implemented real-time updates of stock market prices using IEX Cloud API.
- Integrated unit-tests with Mocha and Chai to validate backend routes and database initialization.
- **Technologies: JavaScript, React, Redux, Node, Sequelize, PostgreSQL, IEX Cloud API, Mocha, Chai, Passport**

AR World - *Full-Stack Developer, https://github.com/baby-bottle-pop/AR-WORLD*

- Augmented reality app developed with a team of 4 where users can interact and review businesses via mobile devices.
- Aggregated user data from third party APIs and PostgreSQL database to render user specific reviews.
- Implemented feature that allow users to filter businesses based on categories and proximity.
- **Technologies: JavaScript, React Native, ViroReact, Redux, Node, Sequelize, PostgreSQL, Foursquare API, Passport**

E-Commerce Commerce - *Full-Stack Developer, https://github.com/thunky-monks/graceshopper*

- Full stack web application developed with a team of 4 that simulates an online store with a product catalog, persistent cart, and checkout system.
- Added ability to facilitate payments upon checkout by integrating Stripe API.
- **Technologies: JavaScript, React, Redux, Node, Sequelize, PostgreSQL, Passport, Stripe, OAuth**

Diff Check - *Sole-Developer, https://github.com/martin-ng/Diff-Check*

- Web app that finds and outputs the differences between two text inputs.
- Implemented Longest Common Subsequence algorithm to reduce time complexity from $O(2^{(m+n)})$ to $O(m*n)$.
- **Technologies: JavaScript, React, Node**

Youtify - *Sole-Developer, https://github.com/martin-ng/Youtify*

- Python script that automates the process of converting YouTube video playlists to Spotify music playlists
- **Technologies: Python, YouTube Data API, Spotify Web API**

EXPERIENCE

Desimone Consulting Engineers – *Structural Design Engineer*   **Sept 2018 – Sept 2019**

- Performed finite element analysis to design foundations, floor slabs, and columns for a 26-story building.
- Increased revenue by 2 million by analyzing tradeoffs between pre-stressed and conventional concrete design.
- Worked directly with clients and architects to coordinate critical building components during construction.

EDUCATION

Fullstack Academy | New York City, NY   **Sept 2019 – Dec 2019**
Software Engineering and Web Development

University at Buffalo | Amherst, NY   **Sept 2016 – June 2017**
M.S. in Structural Engineering