

Duke Nguyen

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TECHNICAL EXPERIENCE

Proficiency in React.js, Redux, JavaScript, jQuery, Ruby, Ruby on Rails, SQL, Git, HTML5 and CSS3

Cellular Automata | JavaScript, d3.js, HTML5 & CSS3

A visual journal detailing the process of cellular automata and its applications in complex and real world physical systems

- Utilized the d3.js library in order to generate live animations of 1-d and 2-d cellular automaton systems
- Implemented specialized algorithms that mimic complex systems such as traffic models, forest fires and urban sprawl
- Accounted for time and space complexity in order to efficiently run these algorithms on a single page

Chimp Casino | JavaScript, Phaser, React, Express.js, MongoDB, WebSocket, HTML5 & CSS3

Collaborated with a team of 3 others to create a multiplayer game that was implemented on a new stack. Learning the MERN stack and development of the game took place over the course of two weeks

- Dispatched WebSockets to allow for multiplayer capabilities within games as well as a lobby instance that incorporates a chat feature amongst chimps in the same lobby instance
- Leaderboard and individual profile statistics stored in MongoDB server with Express.js to initialize DB requests

PREVIOUS PROJECT

Tea House Project, 2016

Construction project over the course of a summer for a construction design class

- Promoted the importance of sustainable architecture and community by constructing a mobile gathering place with locally sourced, renewable material that can be transported between various public gatherings
- Acted as lead designer and construction foreman over 21 people, oversaw an entire 4-month process until completion, and managed deadlines through the assignment of daily construction crews
- Auctioned off for \$12,000; the proceeds were donated to Orange County's Habitat for Humanity

EMPLOYMENT

Data Analyst

NovaBay Pharmaceuticals, Sep 2017 - Oct 2019

Managed the data pipeline for a multi-million dollar pharmaceutical company wherein I provided data analytics for executives and 54 sales representatives across the U.S.

- Utilized Tableau and Excel in order to provide weekly data reports for Rx prescription data and profit projections models
- Established a model to evaluate sales territory viability in order to boost sales volume and efficiently target hotspots that were previously unaccounted for in the data. This led to about a 20% growth in sales volume over a single quarter
- Conducted Excel workshops in order to help bolster Excel proficiency among sales representatives

Research Assistant

University of California, Berkeley, Sep 2016 - Oct 2017

Assisted a PhD candidate on their research regarding the effects of government incentives within the electric car market in the US and Norway in order to better inform policymakers on when and how to effectively introduce government incentives

- Analyzed a 17,323 row, 24 column dataset on electric and gas car specifications using SQL, Python and MATLAB.
- Proposed probabilistic models generated from a 15-year-long time-series dataset for the purpose of hypothesis testing, findings were summarized and presented in weekly reports to PhD candidate and faculty-advisor

EDUCATION

App Academy *Immersive software development course with focus on full stack web development* (Fall 2019)

University of California, Berkeley BA - Economics (Spring 2017)

Orange Coast College AA - Architectural Design (Spring 2015)

INTERESTS

Rock climbing, snowboard, music (*anything, even country*), audio fidelity, graphic design, industrial design, fashion, architecture, sci-fi, video games, building computers and finance