

ALBERT NGO

albertngo1@gmail.com | 512-299-4399 | New York, NY | <https://ngoalbert.com>

PROJECTS

Phasebook | React, Redux, Rails, PostgreSQL, Websockets, S3

Live | Github

A full-stack single paged social networking application

- Configured complex associations with eager loading to decrease server load from RESTful requests
- Integrated AWS S3 and Paperclip to house / resize media, eliminating server asset storage for uploads and reducing client-side rendering / bandwidth bottlenecking
- Applied media queries for responsive design
- Implemented real-time chat using websockets

Plinko | JavaScript, Firebase

Live | Github

A browser based JavaScript game known from The Price Is Right

- Blended HTML5 Canvas with Matter.js to emulate a physics engine
- Appended Firebase database to store high scores
- Integrated p5.js to render canvas and to include sound files

Bastion | JavaScript, HTML5 Canvas

Live | Github

A JavaScript maze visualizer

- Adapted a variety of graph and pathfinding algorithms, including depth-first-search, breadth-first-search, and A* search, for maze generation and maze solving
- Organized project with object-oriented principles to define maze and drawing logic, allowing the user to view maze building and solving intuitively
- Coupled underlying code with DOM elements via jQuery to enable the UI, improving the UX

EXPERIENCE

AECOM

Houston, TX/Richmond, KY

Engineer

2013 – 2016

- Appointed administrator lead for projects involving the use of design software, SmartPlant Instrumentation
- Collaborated with multiple functional groups, project management, and design to deliver project goals
- Oversaw projects to ensure safety and regulatory compliance, meeting company safety metrics
- Wrote VBA scripts to automate tasks

EDUCATION

APP ACADEMY

New York, NY

Rigorous full-stack software engineering program with <3% acceptance rate

2017

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, TX

Bachelor of Science, Chemical Engineering

2008 – 2012

Activities: Matlab, Bioinformatics Lab, Discrete Math, Differential Equations, Statistics

TECHNICAL SKILLS

Ruby

Rails

JavaScript

SQL

HTML5

CSS3

Firebase

React + Redux

AWS S3

Git

jQuery