

DANIEL CHOI

📍 159 W 25 St · New York, NY · 10001 📞 (615) 477-3291 ✉ ygdanchoi@gmail.com
🌐 ygdanchoi.github.io 🔗 www.linkedin.com/in/ygdanchoi 🐙 www.github.com/ygdanchoi

SKILLS

Ruby Rails	React Redux	JavaScript PhotoShop	HTML5 CSS3	SQL jQuery	Git RSpec	CompTIA A+ MATLAB	Java R
---------------	----------------	-------------------------	---------------	---------------	--------------	----------------------	-----------

PROJECTS

CitySounds · Rails · React · Redux

[Live](#) · [GitHub](#)

Full-stack web application for listening to ambient city soundscapes while studying.

- Renders a custom CSS-styled react-audio-player component implementing a centralized state to display artwork/metadata, control audio playback, and switch seamlessly between a list of tracks.
- Presents a tabbed interface for uploading audio and artwork files into an album, then enforces database integrity by saving/updating all data synchronously within an ActiveRecord transaction.
- Serves audio files, album artwork, and user avatars from Amazon S3 cloud storage over HTTPS.

Atari Tempest Lite · JavaScript · Canvas

[Live](#) · [GitHub](#)

Retro browser game inspired by Tempest, the 1981 arcade game by Atari.

- Scales and rotates vectors in real time to map enemy polygons onto three-dimensional surfaces.
- Ensures smooth user interaction by using separate down/up listeners for keypress & click events, moving the player along the shortest path to a target, and integrating the Microsoft Surface Dial.
- Progressively increases the difficulty level by adjusting enemy attributes on a logarithmic scale.

SneakySQL · Ruby · SQLite3

[GitHub](#)

Object-relational mapping tool for translating SQLite3 entries to Ruby objects.

- Intelligently creates or updates database entries based on whether an instance already has an ID.

EDUCATION

App Academy

New York, NY

Rigorous full-stack web development bootcamp with 3% acceptance rate

Feb 2017 – May 2017

Cornell University, College of Arts and Sciences

Ithaca, NY

B.A. in Biological Sciences; Concentration in Computational Biology

Aug 2010 – May 2014

- Cumulative GPA: 3.771
- Relevant Coursework:
 - Intro to Computing Using MATLAB
 - Linear Algebra with Applications
 - Object-Oriented Programming & Data Structures
 - Discrete Structures

WORK HISTORY

Simply Vietnamese

Tenafly, NJ

Front of House Staff

Dec 2016 – Feb 2017

- Greeted incoming guests, processed card & cash payments at a POS terminal, and provided friendly customer service at a restaurant voted Best of Bergen for the past six consecutive years.

NYU Langone Medical Center

New York, NY

Research Assistant

Oct 2014 – Aug 2016

- Developed, ran, and transcribed protocols for software-controlled calcium imaging experiments, which were consulted by later researchers; abstract accepted at [WIP 2016](#) & pending publication.
- Introduced Excel VBA and AutoHotkey scripts to automate over half of the data analysis process, collectively saving my colleagues 100+ hours of repetitive tasks; acknowledged in [Mol. Pain](#).
- Standardized ADNI clinical data spreadsheets using lookup functions and conditional logic to accelerate statistical analysis; abstract accepted for [IARS 2016](#) conference & pending publication.