# **DANIEL CHOI**

## **S**KILLS

SIGLES							
Ruby	React	JavaScript	HTML5	SQL	Git	CompTIA A+	Java
Rails	Redux	PhotoShop	CSS3	jQuery	RSpec	MATLAB	R
			Solo Pr	OJECTS			

CitySounds · Ruby on Rails · React · Redux · PostgreSQL

Live GitHub

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

- Renders a custom CSS-styled React audio player component that uses centralized Redux actions to persist audio playback state between views and switch seamlessly between albums & tracks.
- Presents a tabbed interface for uploading audio, artwork, and metadata into an album, then enforces database integrity by saving/updating all data within atomic ActiveRecord transactions.
- Serves audio files, album artwork, and user avatars from Amazon S3 cloud storage over HTTPS.
- Maintains a many-to-many relationship to enable tagging of albums & filtering of albums by tags.

# Atari Tempest Lite · JavaScript · Canvas · Vanilla DOM

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 a three-dimensional surface.
- 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, updates, and deletes database entries via an object-oriented user interface.

#### **EDUCATION**

App Academy

New York, NY

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

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
  - Object-Oriented Programming & Data Structures
- Linear Algebra with Applications
- 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.