

# DANIEL CHOI

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## SKILLS

Ruby Rails	React Redux	JavaScript PhotoShop	HTML5 CSS3	SQL jQuery	Git RSpec	CompTIA A+ MATLAB	Java R
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## 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/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.
- Wrote 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 enable statistical analysis; abstract accepted for [IARS 2016](#) conference & pending publication.