

# 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 skin to display album artwork, switch between tracks, and play audio stored on Amazon S3 via the Paperclip gem.
- Dynamically renders modular React components for editing user info fields and managing multiple track uploads within albums on an individual basis.
- Enforces SQL database integrity and prevents orphaned sounds by uploading collections of artwork and audio files through atomic ActiveRecord transactions.

**Atari Tempest Lite** · JavaScript · Canvas

[Live](#) · [GitHub](#)

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

- Translates and rotates vectors on the fly to render three-dimensional surfaces.
- Detects mouse movement between polygons; contiguously moves the blaster's position toward the hovered polygon via the shorter path along a closed loop.
- Gradually increases difficulty by varying enemy attributes on a logarithmic scale.

**SneakySQL** · Ruby · SQLite3

[GitHub](#)

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

- Utilizes the SQLite and ActiveSupport gems to allow object-oriented SQL actions.

## 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 guests, operated POS terminal, and provided friendly customer service at a restaurant voted Best of Bergen for the past six years.

**NYU Langone Medical Center**

**New York, NY**

*Research Assistant*

Oct 2014 – Aug 2016

- Developed, executed, and transcribed animal surgery & calcium imaging protocols; abstract accepted for [WIP 2016](#) conference & pending publication.
- Wrote Excel VBA and AutoHotkey scripts to automate over half of data analysis process, saving my colleagues hours of busywork; acknowledged in [Mol. Pain](#).
- Standardized ADNI clinical data spreadsheets to enable statistical analysis; abstract accepted for [IARS 2016](#) conference & pending publication.