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| Daniel Choi | | | | | | | | |
| C:\Users\Dan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\ic_business_black_24dp_2x.png 159 W 25 St ∙ New York, NY ∙ 10001 phone (615) 477-3291 C:\Users\Dan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\email (1).png [ygdanchoi@gmail.com](mailto:ygdanchoi@gmail.com) | | | | | | | | |
| earth [ygdanchoi.github.io](https://ygdanchoi.github.io) In-Black-128px-R [www.linkedin.com/in/ygdanchoi](http://www.linkedin.com/in/ygdanchoi) C:\Users\Dan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\GitHub-Mark-120px-plus.png [www.github.com/ygdanchoi](http://www.github.com/ygdanchoi) | | | | | | | | |
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| Skills | | | | | | | | |
| **Ruby** | **React** | **JavaScript** | **HTML5** | **SQL** | | **Git** | **CompTIA A+** | **Java** |
| **Rails** | **Redux** | **PhotoShop** | **CSS3** | **jQuery** | | **RSpec** | **MATLAB** | **R** |
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| Projects | | | | | | | | |
| **CitySounds** ∙ Ruby on Rails ∙ React ∙ Redux ∙ PostgreSQL [Live](http://citysoundsapp.com/) ∙ [GitHub](https://github.com/ygdanchoi/city-sounds)  *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](https://ygdanchoi.github.io/atari-tempest) ∙ [GitHub](https://github.com/ygdanchoi/atari-tempest)  *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](https://github.com/ygdanchoi/sneaky-sql)  *Object-relational mapping tool for translating SQLite3 entries to Ruby objects.*   * Intelligently creates, updates, and deletes database entries via an object-oriented user interface. | | | | | | | | |
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| 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 * Object-Oriented Programming & Data Structures | | | | | * Linear Algebra with Applications * Discrete Structures | | | |
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| 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](http://wip2016.kenes.com/scientific-program-(2)/scientific-program) & 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](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4956369/). * Standardized ADNI clinical data spreadsheets using lookup functions and conditional logic to accelerate statistical analysis; abstract accepted for [IARS 2016](http://www.iars.org/education/annual_meeting/past_annual_meetings/) conference & pending publication. | | | | | | | | |