

# Immanuel Chen

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## Education

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**Bachelors of Science in Computer Science**

**Bachelors of Science in Mathematics**

**University of Puget Sound**, Tacoma, WA

- Graduated May 2016
- Computer Science GPA: 3.80/4.00

## Skills

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Proficient with Python, Flask, JavaScript, JQuery, AngularJS, CSS, Bootstrap, SQL, and HTML  
Experience with Django, PHP, Java, C, Ruby, Prolog, and Haskell

## Projects

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**Portfolio**, [ihchen.pythonanywhere.com](http://ihchen.pythonanywhere.com)

Spring 2017, Independent Project, California, CA

- Created using Flask and AngularJS. All CSS coded from scratch (except Bootstrap containers)
- Obtained a Google PageSpeed score of 100.

**MemPassGen**, <https://ihchen.github.io/mempassgen>

Spring 2017, Independent Project, California, CA

- Developed a unique password generator using AngularJS
- Implemented an on screen keyboard that allows you to customize your finger placement. Default is the standard qwerty keyboard finger placement.

**Carly Brock Art Website**, [carlyabrock.com](http://carlyabrock.com)

Spring 2017, Independent Project, California, CA

- Developed a website using Flask (Python), Bootstrap3, and JQuery for an artist/painter
- Implemented password protected administration functionality on the public pages allowing her to see her updates as she is doing them
- Troubleshooted a JS lightbox plugin and edited the code to work with this site specifically
- Assisted in putting her website online with WebHostFace under the domain 'carlyabrock.com'
- Originally implemented the site mostly from scratch using only PHP, CSS, HTML, and pure JavaScript in Fall 2016

**Soundulate**, <https://turing.pugetsound.edu/soundulate>

Spring 2016, Capstone, University of Puget Sound, Tacoma, WA

- Collaborated with two other students in order to implement a browser based ear training application for the use of University of Puget Sound music students taking the Aural Skills class (<https://turing.pugetsound.edu/soundulate/>)
- Developed a JavaScript class that converts a list of String represented musical notes into audio that can be played in a given or random style
- Utilized a free external JavaScript library called Howler for auditory playback and manipulation in which bugs were discovered and worked around
- Designed a simple but mobile friendly user interface for the main functionality of the app from scratch using CSS
- Used AWS not just to test the application but also allow music students to use and help debug the app

## Other Experience

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Database Troubleshooter/Technology Support, Student Accessibility and Accommodation, Tacoma, Wa, Sept 2014 - May 2016

Math Tutor/Grader, University of Puget Sound, Tacoma, WA, Sept 2014 - May 2016

## Relevant Activities

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ACM-ICPC International Collegiate Programming Contest, 2015

Mathematical Contest in Modeling (MCM), 2016